

Lab Assignment for UG SPL Computer GE Science Practical Examination July 2024

SPLGE– 1: COMPUTER Computer Science as Generic Elective (GE I (B)): Computer Fundamentals Lab

SL. No.	Practicals
Practical exercises based on MS Office/ Open Office tools using document preparation and spreadsheet handling packages.	
MS Word	
1.	<p>Prepare a grocery list having four columns (Serial number, The name of the product, quantity and price) for the month of April, 06.</p> <ul style="list-style-type: none"> • Font specifications for Title (Grocery List): 14-point Arial font in bold and italics. • The headings of the columns should be in 12-point and bold. • The rest of the document should be in 10-point Times New Roman. <p>Leave a gap of 12-points after the title.</p>
2.	<p>Create a telephone directory.</p> <ul style="list-style-type: none"> • The heading should be 16-point Arial Font in bold • The rest of the document should use 10-point font size • Other headings should use 10-point Courier New Font. • The footer should show the page number as well as the date last updated.
3.	<p>Design a time-table form for your college.</p> <ul style="list-style-type: none"> • The first line should mention the name of the college in 16-point Arial Font and should be bold. • The second line should give the course name/teacher's name and the department in 14-point Arial. • Leave a gap of 12-points. • The rest of the document should use 10-point Times New Roman font. • The footer should contain your specifications as the designer and date of creation.
4.	<p>BPB Publications plans to release a new book designed as per your syllabus. Design the first page of the book as per the given specifications.</p> <ul style="list-style-type: none"> • The title of the book should appear in bold using 20-point Arial font. • The name of the author and his qualifications should be in the center of the page in 16-point Arial font. • At the bottom of the document should be the name of the publisher and address in 16-point Times New Roman. • The details of the offices of the publisher (only location) should appear in the footer.
5.	<p>Create the following one page documents.</p> <ul style="list-style-type: none"> • Compose a note inviting friends to a get-together at your house, including a list of things to bring with them.

	<ul style="list-style-type: none"> • Design a certificate in landscape orientation with a border around the document. • Design a Garage Sale sign. • Make a sign outlining your rules for your bedroom at home, using a numbered list. 																												
6.	<p>Create the following documents:</p> <ul style="list-style-type: none"> • A newsletter with a headline and 2 columns in portrait orientation, including at least one image surrounded by text. • Use a newsletter format to promote upcoming projects or events in your classroom or college. 																												
7.	<p>Convert following text to a table, using comma as delimiter Type the following as shown (do not bold).</p> <p style="text-align: center;">Color, Style, Item</p> <p style="text-align: center;">Blue, A980, Van</p> <p style="text-align: center;">Red, X023, Car</p> <p style="text-align: center;">Green, YL724, Truck</p> <p style="text-align: center;">Name, Age, Sex</p> <p style="text-align: center;">Bob, 23, M</p> <p style="text-align: center;">Linda, 46, F</p> <p style="text-align: center;">Tom, 29, M</p>																												
8.	<p>Enter the following data into a table given on the next page.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Salesperson</th> <th>Dolls</th> <th>Trucks</th> <th>Puzzles</th> </tr> </thead> <tbody> <tr> <td>Kennedy, Sally</td> <td>1327</td> <td>1423</td> <td>1193</td> </tr> <tr> <td>White, Pete</td> <td>1421</td> <td>3863</td> <td>2934</td> </tr> <tr> <td>Pillar, James</td> <td>5214</td> <td>3247</td> <td>5467</td> </tr> <tr> <td>York, George</td> <td>2190</td> <td>1278</td> <td>1928</td> </tr> <tr> <td>Banks, Jennifer</td> <td>1201</td> <td>2528</td> <td>1203</td> </tr> <tr> <td>Atwater, Kelly</td> <td>4098</td> <td>3079</td> <td>2067</td> </tr> </tbody> </table> <p>Add a column Region (values: S, N, N, S, S, S) between the Salesperson and Dolls columns to the given table Sort your table data by Region and within Region by Salesperson in ascending order: In this exercise, you will add a new row to your table, place the word "Total" at the bottom of the Salesperson column, and sum the Dolls, Trucks, and Puzzles columns.</p>	Salesperson	Dolls	Trucks	Puzzles	Kennedy, Sally	1327	1423	1193	White, Pete	1421	3863	2934	Pillar, James	5214	3247	5467	York, George	2190	1278	1928	Banks, Jennifer	1201	2528	1203	Atwater, Kelly	4098	3079	2067
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10.	<p>Following features of menu option must be covered</p> <table style="width: 100%;"> <tr> <td>FILE</td> <td>Complete menu</td> </tr> <tr> <td>EDIT</td> <td>Complete menu</td> </tr> <tr> <td>VIEW</td> <td>Complete menu</td> </tr> <tr> <td>INSERT</td> <td>Complete menu</td> </tr> <tr> <td>FORMAT</td> <td>Complete menu</td> </tr> <tr> <td>TABLE</td> <td>Complete menu</td> </tr> </table>	FILE	Complete menu	EDIT	Complete menu	VIEW	Complete menu	INSERT	Complete menu	FORMAT	Complete menu	TABLE	Complete menu																
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1.	<p>Enter the Following data in Excel Sheet</p> <table style="margin-left: 40px;"> <thead> <tr> <th colspan="7" style="text-align: center;">REGIONAL SALES PROJECTION</th> <th></th> <th></th> </tr> <tr> <th>State</th> <th>Qtr1</th> <th>Qtr2</th> <th>Qtr3</th> <th>QTR4</th> <th>Qtr Total</th> <th>Rate</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>Delhi</td> <td>2020</td> <td>2400</td> <td>2100</td> <td>3000</td> <td>15</td> <td></td> <td></td> </tr> <tr> <td>Punjab</td> <td>1100</td> <td>1300</td> <td>1500</td> <td>1400</td> <td>20</td> <td></td> <td></td> </tr> <tr> <td>U.P.</td> <td>3000</td> <td>3200</td> <td>2600</td> <td>2800</td> <td>17</td> <td></td> <td></td> </tr> <tr> <td>Harayana</td> <td>1800</td> <td>2000</td> <td>2200</td> <td>2700</td> <td>15</td> <td></td> <td></td> </tr> <tr> <td>Rajasthan</td> <td>2100</td> <td>2000</td> <td>1800</td> <td>2200</td> <td>20</td> <td></td> <td></td> </tr> </tbody> </table> <p>TOTAL AVERAGE</p> <p>a. Apply Formatting as follow:</p> <ol style="list-style-type: none"> i. Title in TIMES NEW ROMAN ii. Font Size - 14 iii. Remaining text - ARIAL, Font Size -10 iv. State names and Qtr. Heading Bold, Italic with Gray Fill Color. v. Numbers in two decimal places. vi. Qtr. Heading in center Alignment. vii. Apply Border to whole data. <p>b. Calculate State and Qtr. Total</p> <p>c. Calculate Average for each quarter</p> <p>Calculate Amount = Rate * Total.</p>		REGIONAL SALES PROJECTION									State	Qtr1	Qtr2	Qtr3	QTR4	Qtr Total	Rate	Amount	Delhi	2020	2400	2100	3000	15			Punjab	1100	1300	1500	1400	20			U.P.	3000	3200	2600	2800	17			Harayana	1800	2000	2200	2700	15			Rajasthan	2100	2000	1800	2200	20									
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	<p>8 5006 5300 7600 9800 6100</p> <p>Calculate the commission earned by the salesmen on the basis of following Candidates:</p> <table border="0"> <tr> <td>If Total Sales</td> <td>Commission</td> </tr> <tr> <td>< 20000</td> <td>0% of sales</td> </tr> <tr> <td>> 20000 and < 25000</td> <td>4% of sales</td> </tr> <tr> <td>> 25000 and < 30000</td> <td>5.5% of sales</td> </tr> <tr> <td>> 30000 and < 35000</td> <td>8% of sales</td> </tr> <tr> <td>>= 35000</td> <td>11% of sales</td> </tr> </table> <p>The total sale is sum of sales of all the four quarters.</p>	If Total Sales	Commission	< 20000	0% of sales	> 20000 and < 25000	4% of sales	> 25000 and < 30000	5.5% of sales	> 30000 and < 35000	8% of sales	>= 35000	11% of sales
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>= 35000	11% of sales												
4.	<p>A company XYZ Ltd. pays a monthly salary to its employees which consists of basic salary, allowances & deductions. The details of allowances and deductions are as follows:</p> <p>Allowances</p> <ul style="list-style-type: none"> • HRA Dependent on Basic <ul style="list-style-type: none"> 30% of Basic if Basic <=1000 25% of Basic if Basic >1000 & Basic <=3000 20% of Basic if Basic >3000 • DA Fixed for all employees, <ul style="list-style-type: none"> 30% of Basic • Conveyance Allowance <ul style="list-style-type: none"> Rs. 50/- if Basic is <=1000 Rs. 75/- if Basic >1000 & Basic <=2000 Rs. 100 if Basic >2000 • Entertainment Allowance <ul style="list-style-type: none"> NIL if Basic is <=1000 Rs. 100/- if Basic > 1000 <p>Deductions</p> <ul style="list-style-type: none"> • Provident Fund <ul style="list-style-type: none"> 6% of Basic • Group Insurance Premium <ul style="list-style-type: none"> Rs. 40/- if Basic is <=1500 Rs. 60/- if Basic > 1500 & Basic <=3000 Rs. 80/- if Basic >3000 <p>Calculate the following:</p> <p>Gross Salary = Basic + HRA + DA + Conveyance + Entertainment Total deduction = Provident Fund + Group Insurance Premium Net Salary = Gross Salary – Total Deduction</p>												
5.	<p>Create Payment Table for a fixed Principal amount, variable rate of interests and time in the format below:</p> <table border="0"> <tr> <td>No. of Installments</td> <td>5%</td> <td>6%</td> <td>7%</td> <td>8%</td> <td>9%</td> </tr> <tr> <td>3</td> <td>XX</td> <td>XX</td> <td>XX</td> <td>XX</td> <td>XX</td> </tr> </table>	No. of Installments	5%	6%	7%	8%	9%	3	XX	XX	XX	XX	XX
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3	XX	XX	XX	XX	XX								

	4	XX	XX	XX	XX	XX
	5	XX	XX	XX	XX	XX
	6	XX	XX	XX	XX	XX
6.	Use an array formula to calculate Simple Interest for given principal amounts given the rate of Interest and time					
	Rate of Interest	8%				
	Time	5 Years				
	Principal	Simple Interest				
	1000	?				
	18000	?				
	5200	?				
7.	The following table gives year wise sale figure of five salesmen in Rs.					
	Salesman	2000	2001	2002	2003	
	S1	10000	12000	20000	50000	
	S2	15000	18000	50000	60000	
	S3	20000	22000	70000	70000	
	S4	30000	30000	100000	80000	
	S5	40000	45000	125000	90000	
	(a) Calculate total sale year wise.					
	(b) Calculate the net sale made by each salesman					
	(c) Calculate the maximum sale made by the salesman					
	(d) Calculate the commission for each salesman under the condition.					
	(i) If total sales >4, 00, 000 give 5% commission on total sale made by the salesman.					
	(ii) Otherwise give 2% commission.					
	(e) Draw a bar graph representing the sale made by each salesman.					
	(f) Draw a pie graph representing the sale made by salesman in 2000.					
8.	Enter the following data in Excel Sheet					
	PERSONAL BUDGET FOR FIRST QUARTER					
	Monthly Income (Net): 1,475					
	Expenses	JAN	FEB	MAR	Quarter Total	Quarter Average
	Rent	600	600	600		
	Telephone	48.25	43.25	60		
	Utilities	67.27	110	70		
	Credit Card	200	110	70		
	Oil	100	150	90		
	AV to Insurance	150				
	Cable TV	40.75	40.75	40.75		
	Monthly Total					
	(a) Calculate Quarter total and Quarter average.					
	(b) Calculate Monthly total.					
	(c) Surplus = Monthly income - Monthly total.					
	(d) What would be total surplus if monthly income is 1500.					
	(e) How much does telephone expense for March differ from quarter average.					
	(f) Create a 3D column graph for telephone and utilities.					
	(g) Create a pie chart for monthly expenses.					

9. Enter the following data in Excel Sheet

TOTAL REVENUE EARNED FOR SAM'S BOOKSTALL (in Indian Rupees)				
Publisher Name	1997	1998	1999	2000
A	1000	1100	1300	800
B	1500	700	1000	2000
C	700	900	1500	600
D	1200	500	200	1100
E	800	1000	3000	560

(a) Compute the total revenue earned.

(b) Plot the line chart to compare the revenue of all publishers for 4 years.

(c) Chart Title should be Total Revenue of Sam's Bookstall (1997-2000)

(d) Give appropriate categories and value axis title.

1. Generate 25 random numbers between 0 & 100 and find their sum, average and count. How many no. are in range 50-60.

**Lab Assignment for UG SPL Computer GE Science Practical
Examination July 2024**

**SPL GE–2: COMPUTER
Computer Science Elective (GE-II (B)): Introduction to Programming
using 'C' Lab**

SL. No.	Program
1.	WAP to print the sum and product of digits of an integer.
2.	WAP to reverse a number.
3.	WAP to compute the sum of the first n terms of the following series $S = 1+1/2+1/3+1/4+...$
4.	WAP to compute the sum of the first n terms of the following series $S = 1-2+3-4+5+.....$
5.	Write a function that checks whether a given string is Palindrome or not. Use this function to find whether the string entered by user is Palindrome or not.
6.	Write a function to find whether a given no. is prime or not. Use the same to generate the prime numbers less than 100.
7.	WAP to compute the factors of a given number.
8.	Write a macro that swaps two numbers. WAP to use it.
9.	WAP to print a triangle of stars as follows (take number of lines from user): <div style="text-align: center;"> <pre> * *** ***** ***** ***** ***** </pre> </div>
10.	WAP to perform following actions on an array entered by the user: i) Print the even-valued elements ii) Print the odd-valued elements iii) Calculate and print the sum and average of the elements of array iv) Print the maximum and minimum element of array v) Remove the duplicates from the array vi) Print the array in reverse order The program should present a menu to the user and ask for one of the options. The menu should also include options to re-enter array and to quit the program.
11.	WAP that prints a table indicating the number of occurrences of each alphabet in the text entered as command line arguments.
12.	Write a program that swaps two numbers using pointers.
13.	Write a program in which a function is passed address of two variables and then alter its contents.
14.	Write a program which takes the radius of a circle as input from the user, passes it to another function that computes the area and the circumference of the circle and displays the value of area and circumference from the main() function.
15.	Write a program to find sum of n elements entered by the user. To write this program, allocate memory dynamically using malloc() / calloc() functions or new operator.
16.	Write a menu driven program to perform following operations on strings: a) Show address of each character in string b) Concatenate two strings without using strcat function. c) Concatenate two strings using strcat function. d) Compare two strings e) Calculate length of the string (use pointers)

	<p>f) Convert all lowercase characters to uppercase g) Convert all uppercase characters to lowercase h) Calculate number of vowels i) Reverse the string Given two ordered arrays of integers, write a program to merge the two-arrays to get an ordered array.</p>
17.	WAP to display Fibonacci series (i)using recursion, (ii) using iteration
18.	WAP to calculate Factorial of a number (i)using recursion, (ii) using iteration
19.	WAP to calculate GCD of two numbers (i) with recursion (ii) without recursion.
20.	Create Matrix class using templates. Write a menu-driven program to perform following Matrix operations (2-D array implementation): a) Sum b) Difference c) Product d) Transpose
21.	Create the Person class. Create some objects of this class (by taking information from the user). Inherit the class Person to create two classes Teacher and Student class. Maintain the respective information in the classes and create, display and delete objects of these two classes (Use Runtime Polymorphism).
22.	Create a class Triangle. Include overloaded functions for calculating area. Overload assignment operator and equality operator.
23.	Create a class Box containing length, breath and height. Include following methods in it: a) Calculate surface Area b) Calculate Volume c) Increment, Overload ++ operator (both prefix & postfix) d) Decrement, Overload -- operator (both prefix & postfix) e) Overload operator == (to check equality of two boxes), as a friend function f) Overload Assignment operator g) Check if it is a Cube or cuboid Write a program which takes input from the user for length, breath and height to test the above class.
24.	Create a structure Student containing fields for Roll No., Name, Class, Year and Total Marks.
25.	Create 10 students and store them in a file.
26.	Write a program to retrieve the student information from file created in previous question and print it in following format: Roll No. Name Marks.
27.	Copy the contents of one text file to another file, after removing all whitespaces.
28.	Write a function that reverses the elements of an array in place. The function must accept only one pointer value and return void.
29.	Write a program that will read 10 integers from user and store them in an array. Implement array using pointers. The program will print the array elements in ascending and descending order.

**Lab Assignment for UG SPL Computer GE Science Practical
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**SPL GE-3: COMPUTER
Computer Science as Generic Elective (GE III (B)): Introduction to
Database Management System Lab**

SL. NO.	Contents																																													
Create and use the following database schema to answer the given queries.																																														
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Query List																																														
1.	Query to display Employee Name, Job, Hire Date, Employee Number; for each employee with the Employee Number appearing first.																																													
2.	Query to display unique Jobs from the Employee Table.																																													
3.	Query to display the Employee Name concatenated by a Job separated by a comma.																																													
4.	Query to display all the data from the Employee Table. Separate each Column by a comma and name the said column as THE_OUTPUT.																																													
5.	Query to display the Employee Name and Salary of all the employees earning more than \$2850.																																													
6.	Query to display Employee Name and Department Number for the Employee No= 7900.																																													
7.	Query to display Employee Name and Salary for all employees whose salary is not in the range of \$1500 and \$2850.																																													
8.	Query to display Employee Name and Department No. of all the employees in Dept 10 and Dept 30 in the alphabetical order by name.																																													

9.	Query to display Name and Hire Date of every Employee who was hired in 1981.
10.	Query to display Name and Job of all employees who don't have a current Manager.
11.	Query to display the Name, Salary and Commission for all the employees who earn commission.
12.	Sort the data in descending order of Salary and Commission.
13.	Query to display Name of all the employees where the third letter of their name is =A'.
14.	Query to display Name of all employees either have two =R's or have two =A's in their name and are either in Dept No = 30 or their Manger's Employee No = 7788.
15.	Query to display Name, Salary and Commission for all employees whose Commission Amount is 14 greater than their Salary increased by 5%.
16.	Query to display the Current Date.
17.	Query to display Name, Hire Date and Salary Review Date which is the 1st Monday after six months of employment.
18.	Query to display Name and calculate the number of months between today and the date each employee was hired.
19.	Query to display the following for each employee <E-Name> earns < Salary> monthly but wants < 3 * Current Salary >. Label the Column as Dream Salary.
20.	Query to display Name with the 1st letter capitalized and all other letter lower case and length of their name of all the employees whose name starts with =J', 'A' and =M'.
21.	Query to display Name, Hire Date and Day of the week on which the employee started.
22.	Query to display Name, Department Name and Department No for all the employees.
23.	Query to display Unique Listing of all Jobs that are in Department # 30.
24.	Query to display Name, Dept Name of all employees who have an =A' in their name.
25.	Query to display Name, Job, Department No. And Department Name for all the employees working at the Dallas location.
26.	Query to display Name and Employee no. Along with their Manger's Name and the Manager's employee no; along with the Employees' Name who do not have a Manager.
27.	Query to display Name, Dept No. And Salary of any employee whose department No. and salary matches both the department no. And the salary of any employee who earns a commission.
28.	Query to display Name and Salaries represented by asterisks, where each asterisk (*) signifies \$100.
29.	Query to display the Highest, Lowest, Sum and Average Salaries of all the employees
30.	Query to display the number of employees performing the same Job type functions.
31.	Query to display the no. of managers without listing their names.
32.	Query to display the Department Name, Location Name, No. of Employees and the average salary for all employees in that department.
33.	Query to display Name and Hire Date for all employees in the same dept. as Blake.
34.	Query to display the Employee No. And Name for all employees who earn more than the average salary.
35.	Query to display Employee Number and Name for all employees who work in a department with any employee whose name contains a = 'T'.
36.	Query to display the names and salaries of all employees who report to King.
37.	Query to display the department no, name and job for all employees in the Sales department.

Lab Assignment for UG SPL Computer GE Science Practical Examination July 2024

SPL GE-4: COMPUTER

Computer Science as Generic Elective (GE IV (B)) Computer Networks and Internet Technologies Lab

SL. No.	Programs										
1.	Practical exercises based on concepts listed in theory using HTML. Create HTML document with following formatting – Bold, Italics, Underline, Colors, Headings, Title, Font and Font Width, Background, Paragraph, Line Brakes, Horizontal Line, Blinking text as well as marquee text										
2.	Create HTML document with Ordered and Unordered lists, Inserting Images, Internal and External linking.										
3.	Create HTML document with Table: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: center;">Some image here</td> </tr> </table>							Some image here			
		Some image here									
4.	Create Form with Input Type, Select and Text Area in HTML.										
5.	Create an HTML containing Roll No., student’s name and Grades in a tabular form.										
6.	Create an HTML document (having two frames) which will appear as follows: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> About Department 1 Department 2 Department 3 </td> <td style="width: 50%; padding: 5px;"> This frame would show the contents according to the link clicked by the user on the left frame. </td> </tr> </table>	About Department 1 Department 2 Department 3	This frame would show the contents according to the link clicked by the user on the left frame.								
About Department 1 Department 2 Department 3	This frame would show the contents according to the link clicked by the user on the left frame.										
7.	Create an HTML document containing horizontal frames as follows: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Department Names (could be along with Logos)</td> </tr> <tr> <td style="text-align: center;">Contents according to the Link clicked</td> </tr> </table>	Department Names (could be along with Logos)	Contents according to the Link clicked								
Department Names (could be along with Logos)											
Contents according to the Link clicked											
8.	Create a website of 6 – 7 pages with different effects as mentioned in above problems.										
9.	Create HTML documents (having multiple frames) in the following three formats: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Frame 1</td> </tr> <tr> <td colspan="2" style="text-align: center;">Frame2</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">Frame 1</td> </tr> <tr> <td style="text-align: center;">Frame2</td> <td colspan="2" style="text-align: center;">Frame 3</td> </tr> </table>	Frame 1		Frame2		Frame 1			Frame2	Frame 3	
Frame 1											
Frame2											
Frame 1											
Frame2	Frame 3										
10.	Create a form using HTML which has the following types of controls: V. Text Box VI. Option/radio buttons VII. Check boxes VIII. Reset and Submit buttons										

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11.

List of Practicals using JavaScript

Create event driven program for following:

1. Print a table of numbers from 5 to 15 and their squares and cubes using alert.
2. Print the largest of three numbers.
3. Find the factorial of a number n.
4. Enter a list of positive numbers terminated by Zero. Find the sum and average of these numbers.
5. A person deposits Rs 1000 in a fixed account yielding 5% interest. Compute the amount in the account at the end of each year for n years.

Read n numbers. Count the number of negative numbers, positive numbers and zeros in the list.