

LAB ASSIGNMENT-2

Submission Date: 11-09-21

1. Write a Menu Driven Calculator program that will perform following operations

- Sum
- Subtraction
- Division
- Multiplication
- Mod

2.WAP, which reads two numbers and find the sum of product of digits of the number. If Numbers are 224 and 37 then Answer is $2*3+2*7+2*3+2*7+4*3+4*7=80$

3. Write a program, which reads two numbers and find the product of product of digits If Numbers are 224 and 37 then Answer is $2*3*2*7*2*3*2*7*4*3*4*7$

4. Write a program to swap the values of variable with third variable without third variable.

5. Write a program to accept marks of five subjects from the user and calculate their average.

6. Write a program to calculate Net Salary of an employee. Accept Basic Salary (BS) from the user.

Use float variable.

HRA is 20% of BS, DA is 40% of BS, PF is 10% of GS

Gross Salary is BS + HRA + DA

Net Salary = Gross Salary - PF

7. Write a program which reads 4 numbers a, b, c and p. Let $f(x)=ax^2+bx+c$.

The Program outputs the value of $f(p)$ e.g 4 3 1 2 out put $4(2)^2+3(2)+1=23$

8. Write a program to print "Hello World" using escape sequences: \n, \t, \r, \. Observe the difference in the output.

9. Find the highest number in the given 4 numbers

10. Write a C program to find out given character is vowel or not.

11. Write a C program to find out given year is leap year or not.

12. Write a program that accepts input of a number of seconds, validates it and outputs the equivalent number of hours, minutes and seconds.

13. WAP to take input of 5 subject marks and display the grade according to table:

Marks Average	Grade
>=90	A+
>=80 and <90	A
>=70 and <80	B+
>=60 and <70	B
>=50 and <60	C
<50	Fail

14. WAP to check whether an input character is an alphabet, digit or special character.

15. WAP to read weekday number and print weekday name using switch statement.

16. WAP to find number of days in a month using switch statement.

17. WAP to find maximum between two numbers using switch statement.

18. WAP to check whether a number is positive, negative or zero using switch statement.

19. WAP to calculate and print the Electricity bill of a given customer. The customer id and unit consumed by the customer should be taken from the keyboard and display the total amount to pay to the customer. The charge are as follow :

Unit Consumption	Charge/Unit
upto 199	@4.20
200 and above but less than 400	@5.50

400 and above but less than 600	@6.80
600 and above	@8.00

If bill amount exceeds Rs. 800 then a surcharge of 18% will be charged and the minimum bill should be of Rs. 200/-