

Note-Question in bold are for lab record.

SEQUENCE

1-WAP TO PRINT “HELLO WORLD” USING C (WITH DOCUMENTATION).

2-WAP TO PRINT VARIABLE OF ALL BASIC DATA TYPE.

3-WAP TO FIND SUM OF TWO NUMBERS WITHOUT USING SCANF ().

4-WAP TO FIND SIMPLE INTEREST W/O USING SCANF ().

5-WAP TO DEMONSTRATE USE OF ALL ESCAPE CHARACTER (\n, \t, \a etc)

6- WAP TO COMPUTE NET SALARY? (NS=BP+HRA+TA +DA)

WHERE BP (BASIC PAY WOULD BE ENTER BY USER)

HRA=10% OF BP

TA=5%OF BP

DA=15%OF BP.

7-WAP TO CONVERT TEMPERATURE FROM FAHRENHEIT TO CENTIGRADE.

8- Mr. X BASIC SALARY IS INPUT THROUGH THE KEYBOARD. HIS DEARNESS ALLOWANCE IS 40% OF BASIC SALARY, AND HOUSE RENT ALLOWANCE IS 20% OF BASIC SALARY. WRITE A PROGRAM TO CALCULATE HIS GROSS SALARY.

9- IF THE MARKS OBTAINED BY A STUDENT IN FIVE DIFFERENT SUBJECTS ARE INPUT THROUGH THE KEYBOARD, FIND OUT THE AGGREGATE MARKS AND PERCENTAGE MARKS OBTAINED BY THE STUDENT. ASSUME THAT THE MAXIMUM MARKS THAT CAN BE OBTAINED BY A STUDENT IN EACH SUBJECT IS 100.

10- THE LENGTH & BREADTH OF A RECTANGLE AND RADIUS OF A CIRCLE ARE INPUT THROUGH THE KEYBOARD. WRITE A PROGRAM TO CALCULATE THE AREA & PERIMETER OF THE RECTANGLE, AND THE AREA & CIRCUMFERENCE OF THE CIRCLE.

11-WAP TO FIND A RAISED TO THE POWER B USING POW () FUNCTION.

12-WAP TO FIND ROOTS OF A QUADRATIC EQUATION?

EQ IS OF FORM ($AX^2+BX+C=0$)

13-WAP TO SWAP TWO NUMBERS USING/WITHOUT USING THIRD VARIABLE

SELECTION

1-WAP TO FIND WHETHER A GIVEN NUMBER IS EVEN OR ODD?

2-WAP TO FIND WHETHER A GIVEN NUMBER IS POSITIVE, NEGATIVE, OR ZERO?

3-WAP TO CALCULATE THE ABSOLUTE VALUE?

4- THE FOLLOWING CALCULATES VALUE OF F(X) IF X HAS DIFFERENT RANGES OF VALUE AS BELOW

F(X) = $X^2 + 2$ IF $0 \leq X \leq 10$

F(X) = $X^2 + 2X$ IF $11 \leq X \leq 20$

F(X) = $X^3 + 2X^2$ IF $21 \leq X \leq 30$

F(X) = 0 IF $X > 30$

5-WAP TO FIND THE LARGEST OF THREE NUMBERS AND GIVE THE OUTPUT IN ASCENDING ORDER?

6-WAP TO SIMULATE THE CALCULATOR USING SWITCH STATEMENT AND ELSE-IF LADDER?

7-WAP TO FIND WHETHER A GIVEN CHARACTER IS VOWEL OR CONSONANT?

8-WAP TO CHECK WHETHER THE INPUTTED YEAR IS LEAP OR NOT?

9-WAP FIND THE SIMPLE INTEREST IF PRINCIPAL AMOUNT IS LESS THAN 10000 ELSE CALCULATES COMPOUND INTEREST?

10-WAP TO INPUT A CHARACTER THEN FINDS WHETHER IT IS NUMBER, ALPHABET OR A SPECIAL SYMBOL.

11-IN A TOWN, THE PERCENTAGE OF MEN IS 52. THE PERCENTAGE OF TOTAL LITERACY IS 48. IF TOTAL PERCENTAGE OF LITERATE MEN IS 35 OF THE TOTAL POPULATION, WRITE A PROGRAM TO FIND THE TOTAL NUMBER OF ILLITERATE MEN AND WOMEN IF THE POPULATION OF THE TOWN IS 80,000.

12- PROGRAM TO FIND GRADE OF THE STUDENT FOR FOUR SUBJECTS MARKS FOR

EACH SUBJECT TO BE ENTERED BY THE USER.

Per \geq 85

grade=A

Per<85

and per \geq 70

grade=B

Per<70 and per \geq 55

grade=C

Per<55 and per \geq 40

grade=D

Per<40

grade=F

LOOPING

1-WAP TO FIND SUM AND AVERAGE OF TEN NUMBERS USING FOR, WHILE, DO-WHILE LOOP?

2- WAP TO GENERATE EVEN SERIES FROM 1 TO 50 USING LOOP?

3-WAP TO FIND THE SUM OF DIGITS OF A NUMBER?

4-WAP TO GENERATE A TABLE OF ANY NUMBER?

5-WAP TO FIND WHETHER A GIVEN IS PRIME OR NOT?

6-WAP TO FIND THE SUM OF EVEN AND ODD NUMBERS BETWEEN 1 AND 100?

7-WAP TO FIND FACTORIAL OF A GIVEN NUMBER? (EXAMPLE 5!=120)

8- WAP TO PRINT FIBONACCI SERIES?

0 1 1 2 3 5 8 13.....

9-WAP TO FIND WHETHER A GIVEN NUMBER IS ARMSTRONG NUMBER OR NOT?

$$153=1^3+5^3+3^3$$

10-WAP TO FIND WHETHER A GIVEN NUMBER IS PALLANDROME OR NOT?

11- PROGRAM TO PRINT THE FOLLOWING PATTERNS:-

1) 1
 0 1
 1 0 1

0 1 0 1

1 0 1 0 1

2) *

*

3) A
B C
D E F
G H I J

4) *
* *
* * *
* * * *

5) 1
1 2
1 2 3
1 2 3 4

15- PROGRAM TO FIND THE SUM OF FOLLOWING SERIES USING FUNCTIONS-:

a) $1+(1+2)+(1+2+3)+(1+2+3+4)+\dots+(1+2+3+\dots+n)$

b) $1-1/3+1/5-1/7+1/9+\dots$ upto n terms.

c) $1+2/2!+3/3!+4/4!+\dots+n/n!$

d) $1-1/2^2+1/3^3-1/4^4+\dots$ upto n terms.

e) $1+2*1+3*2+4*3+\dots$ upto n terms

f) $1+2*1+3*2*1+4*3*2*1+\dots$ upto n terms

g) $1-x+x^2-x^3+x^4+\dots$ upto n terms

h) $1^2+2^2+3^2+\dots$ upto n terms

I) $1^2-2^2+3^2-4^2+\dots$ upto n terms

