Day 9

Lab Assignment-9

Lab Assignments

1	WAD C 1 C :	D (11	m1 c : :
1.	WAP to find out sum of series up to n	Enter the	
	terms	value of n:	873612.0
	1+2 ² +3 ³ ++n ⁿ	7	
2.	WAP to find out sum of series up to n	Enter the	The sum of series is
۷٠	terms	value of n:	13.477573
	terms	varae or ii.	10.177070
	1 1 2 1	7	
	1+ V2 + V3+ V4+ VF +···		
3.	WAP to print the following pattern for	Enter Row	1 1 1 1
	rows = 4	Number: 4	0.000
	1 1 1 1		2 2 2 2
			3 3 3 3
	2222		3 3 3 3
	–		4 4 4 4
	3 3 3 3		
	4 4 4 4		
4.	WAP to print the following pattern	Enter Row	1
		Number: 5	1.0
	1		1 2
	1 2		1 2 3
	1 2		1 2 3
	123		1 2 3 4
	1 2 3 4		1 2 3 4 5
	1 2 3 4 5		
5.	WAP to print the following pattern	Enter Row	1
	1	Number: 5	
	1		2 2
	2 2		3 3 3
	3 3 3		4 4 4 4
	4 4 4 4		5 5 5 5 5
	5 5 5 5 5		
6.	WAP to print the following pattern	Enter the	1 3 7 15 31

		value of n:	
	1 3 7 15 31		
		5	
7.	WAP to print the following pattern	Enter the	*
		value of n:	
	*		* *
		5	
	* *		* * *
	* * *		* * * *
	* * * *		* * * * *
	* * * * *		

Logic

1. WAP to find out sum of series up to n terms

2. WAP to find out sum of series up to n terms

Answer: Use sqrt(i) function of math.h

3. WAP to print the following pattern for rows = 4

1 1 1 1

2222

3 3 3 3

4 4 4 4

Logic

int i,j=1;

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for(j=1;j<=4;j++){
     printf("%d",i);
   }
   printf("\n");
 }
4. WAP to print the following pattern
1
1 2
123
1234
1 2 3 4 5
Logic:
printf("Enter the number of rows: ");
 scanf("%d", &rows);
 for (i = 1; i <= rows; ++i) {
   for (j = 1; j <= i; ++j) {
    printf("%d ", j);
   }
   printf("\n");
 }
5. WAP to print the following pattern
1 3 7 15 31......
```

```
Logic: 1 3 7 15 31 /* 0*2+1 1*2+1 3*2+1 7*2+1 15*2+1*/

for(i=1;i<=n;i++)
{
    pr=(pr*2)+1;
    printf("%d ",pr);
}

8.

A

B

B

C

C

C

D

D

D

D

D

E

E

E

E

E

E
```

```
char input, alphabet = 'A';

printf("Enter an uppercase character you want to print in the last row: ");

scanf("%c", &input);

for (i = 1; i <= (input - 'A' + 1); ++i) {

    for (j = 1; j <= i; ++j) {

        printf("%c ", alphabet);

    }

    ++alphabet;

    printf("\n");
}</pre>
```