LAB 4 TASKS

1. Cube series without using power math's function. (Use For loop)

```
SHARE <
                                                  Dark Light
                                                                      C++
        C++
                                                                                            Output
    #include <iostream>
using namespace std;
                                                                                              square is : 0
                                                                                              square is : 1
     int main()
                                                                                              square is : 8
    //Cube series without using power math's function. ((Use For loop))
for(int cube,t=0;t<10;t++)</pre>
                                                                                             square is : 27
                                                                                             square is : 64
                                                                                             square is : 125
9 cube =t'
10 cout<<''
11
12
13 }
14 return 0;
15 }
16
17
18
                                                                                             square is : 216
         cout<< " square is : "<<cube<<endl;</pre>
                                                                                             square is : 343
                                                                                             square is : 512
                                                                                              square is : 729
```

2. Square Series without using power math's function (use For loop)

```
SHARE <
                                       Dark Light
                                                       C++
     C++
                                                                        Output
2 using namespace std;
                                                                         square is : 0
                                                                         square is : 1
4 int main()
                                                                         square is : 4
                                                                         square is : 9
                                                                         square is : 16
  for(int squ,t=0;t<10;t++)</pre>
                                                                         square is : 25
                                                                         square is : 36
      squ =t*t;
     cout<< " square is : "<<squ<<endl;</pre>
                                                                         square is : 49
                                                                         square is : 64
                                                                         square is : 81
```

3. Make program that print the table of 2.

```
SHARE <
                                              Dark Light
                                                                C++
      C++
                                                                                    Output
1 #include <iostream>
2 using namespace std;
                                                                                      print table of two
                                                                                      table of 2 : 2
4 int main()
5 * { cout<<" print table of two "<<endl;</pre>
                                                                                      table of 2 : 4
                                                                                      table of 2 : 6
  for (int i=2; i<=20 ;i=i+2)
   cout<< " table of 2 : "<<i<<endl;
return 0;</pre>
                                                                                      table of 2 : 8
                                                                                      table of 2 : 10
                                                                                      table of 2 : 12
                                                                                      table of 2 : 14
                                                                                      table of 2 : 16
                                                                                      table of 2 : 18
                                                                                      table of 2 : 20
```

4. write a program that input marks of ten students and find their average.

INPUT:

```
C++ Output

#include <iostream>
using namespace std;

int main()

/ /write a program that input marks of ten students and find their average.
int n = 10, sum = 0;
cout<<" marks of ten students : "<<endl;
for(int t=0;t<n;t++)

{
    floot s;
    cout<< "\nenter marks of "<<"student "<<t+1<<" =";
    in> s;
}
sum = s;
}
floot avg = sum/n;
cout<<" average : "<avg<<endl;
return 0;
}</pre>
```

OUTPUT:

```
marks of ten students:
enter marks of student 1 = 56
enter marks of student 2 = 78
enter marks of student 3 = 35
enter marks of student 4 = 89
enter marks of student 5 = 67
enter marks of student 6 = 45
enter marks of student 7 = 78
enter marks of student 8 = 57
enter marks of student 9 = 99
enter marks of student 10 = 98
average : 70

...Program finished with exit code 0
Press ENTER to exit console.
```

5. Factorial Series using for loop

```
SHARE <
                                           Dark Light
                                                             C++
      C++
                                                                               Output
1 #include <iostream>
2 using namespace std;
                                                                                factorial of 1=1
                                                                                factorial of 2=2
4 int main()
                                                                                factorial of 3=6
                                                                               factorial of 4=24
7 - for(float factorial =1,j=1;j<10;j++){</pre>
                                                                                factorial of 5=120
8 factorial *=j;
                                                                               factorial of 6=720
9 cout<<"factorial of "<<j<<"="<<factorial<<endl;}</pre>
                                                                                factorial of 7=5040
                                                                               factorial of 8=40320
                                                                               factorial of 9=362880
```

6. Print Fibonacci series (0,1,1,2,3,5,8...) by using for loop

```
C++ Dark Light C++ Output

#include (iostream)
using namespace std;
int main()
{
    //Print Fibonacci series (0,1,1,2,3,5,8...) by using for loop
int a=0,b-1,c;
cout<<" Fibonacci series : "<<endl;
for (int t=0;t:10;t++)
for (int t=0;t:10;t++)
    //
    cout<<a<'+';
    c= a+b;
    a-b;
    b=c;

return 0;

return 0;
```

7. Write a program that adds all the odd numbers from 1 ton .n will be entered by the user.(n >=1)

INPUT:

OUTPUT:

```
enter number: 9
sum of odd no = 81
...Program finished with exit code 0
Press ENTER to exit console.
```