/\* Wap in C++ to print and find the sum of even /odd numbers using **recursion**.\*/

#include<iostream.h>

#include<conio.h>

int sum\_even(int );

int sum\_odd(int );

int sum=0;

int num=0;

void main()

{ clrscr();

int n;

int s\_e, s\_o;

cout<<"\n\nEnter the number upto which you want the sum of even/odd numbers : ";

cin>>n;

cout<<"\n\n The list of integers is : \n\n";

for(int l=1; l<=n; l++)

cout<<l<<"\n";

s\_e=sum\_even(n);

s\_o=sum\_odd(n);

cout<<"\n\nThe sum of even numbers upto "<<n<<" = "<<s\_e;

cout<<"\n\nThe sum of odd numbers upto "<<n<<" = "<<s\_o;

getch();

}

int sum\_even(int n)

{

if(num%2==0)

sum=sum+num;

if(num!=n && num<n)

{

++num;

sum\_even(n);

}

return sum;

}

int sum\_2=0;

int num\_2=0;

int sum\_odd(int n)

{

if(num\_2%2!=0)

sum\_2=sum\_2+num\_2;

if(num\_2!=n)

{

num\_2++;

sum\_odd(n);

}

return sum\_2;

}

Output:

Enter the number upto which you want the sum of even/odd numbers : 10

The list of integers is :

1

2

3

4

5

6

7

8

9

10

The sum of even numbers upto 10 = 30

The sum of odd numbers upto 10 = 25