Name : Muhammad Talha Zahid

Class : Bs Electronics 2nd semester

Date:17 may 2021

Day : Monday

Task 5 and Task 6.

**TASK:5:**

#include<iostream>

using namespace std;

class qorial{

private:

const int x;

public:

int Calculate( )const; // prototype //

int Result( int)const; // prototype //

qorial(int a):x(a){ //which is same as const int x=a //

}

};

int qorial::Calculate()const{

int x2=1;

for(int i=1 ; i<=x ; i++){

x2=x2\*i;

}

return x2;

}

int qorial::Result(int a)const{

cout<<a<<endl;

}

int main(){

int a;

cout<<" ENTER THE NUMBER OF WHICH YOU WANT TO FIND qORIAL"<<endl;

cin>>a;

int q;

const qorial f1(a);

q=f1.Calculate();

f1.Result(q);

return 0;

}

**TASK:6:**

#include<iostream>

using namespace std;

class Sequence{

private:

static int x;

public:

static funcStatic( ){

x++;

}

Sequence(){

cout<<" CONSTRUCTOR CALLED "<<endl;

cout<<x\*(x+1)/2<<endl;

}

~Sequence(){

cout<<"dectructor called"<<endl;

x--;

}

};

int Sequence::x=0; // initialised static data member equal to zero //

int main(){

Sequence s1; // object created thus the constructor is called //

s1.funcStatic( );

Sequence s2;

s2.funcStatic( );

Sequence s3;

s3.funcStatic( );

Sequence s4;

Sequence::funcStatic( );

Sequence s5;

Sequence::funcStatic( );

Sequence s6;

Sequence::funcStatic( );

Sequence s7;

Sequence::funcStatic( );

Sequence s8;

Sequence::funcStatic( );

Sequence s9;

return 0;

}