Experiment-9

Aim - Write a program to generate a Fibonacci series using copy constructor.

**Source Code:**

#include <iostream>

using namespace std;

class factorial{

public:

int num;

factorial();

//default constructor

factorial(int num){

int ans=1;

if(num==0 || num==1){

cout<<"Factorial is "<<ans<<endl;

} else{

for(int i=num; i>1; i--){

ans = ans \* i;

}

cout<<"Factorial is "<<ans;

}

}

};

int main(){

int n;

cout<<"Enter a number: ";

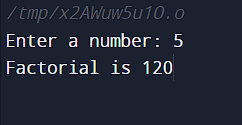
cin>>n;

factorial obj(n);

return 0;

}

**OUTPUT:**



Experiment-10

Aim : Write a program to generate Fibonacci Series using Copy Constructor.

**Source Code:**

#include <iostream>

using namespace std;

class fibonacci\_series

{

private:

int f1, f2, f ;

public:

fibonacci\_series ( ){

f1=0;

f2=1;

cout<<0<<endl<<1<<endl;

f = f1 + f2;

}

fibonacci\_series ( fibonacci\_series & ptr ){

f1 = ptr.f1;

f2 = ptr.f2;

f = ptr.f;

}

void increment ( ) {

f1 = f2 ;

f2 = f ;

f =f1 + f2 ;

}

void show ( ){

cout << f <<endl;

}

};

int main (void){

int x;

cout<<"Number of Terms: ";

cin>>x;

fibonacci\_series number;

for ( int i = 0 ; i <= x-3 ; i++ ){

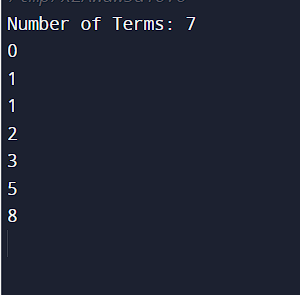
number. show ( ) ;

number. increment ( );

}

}

**OUTPUT:**

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