**FActDEmo.java**

package PackDemo;

public interface FactDemo

{

    public int factorial(int i);

}

**FactImp.java**

package PackDemo;

public class FactImp implements FactDemo{

    public int factorial(int i){

        int num=1;

        for(int j=1;j<=i;j++){

            num=num\*j;

        }

        return num;

    }

}

**CallFact.java**

import PackDemo.\*;

class CallFact{

    public static void main(String[] args) {

        FactImp f= new FactImp();

        System.out.println("factorial is "+f.factorial(5));

    }

}

**Output**

C:\Users\Nikhil\Desktop\bsc cs\sem 3 practical\java>cd PAckDemo

C:\Users\Nikhil\Desktop\bsc cs\sem 3 practical\java\PackDemo>javac \*.java

C:\Users\Nikhil\Desktop\bsc cs\sem 3 practical\java\PackDemo>cd ../

C:\Users\Nikhil\Desktop\bsc cs\sem 3 practical\java>javac CallFact.java

C:\Users\Nikhil\Desktop\bsc cs\sem 3 practical\java>java CallFact

C:\Users\Nikhil\Desktop\bsc cs\sem 3 practical\java>javac CallFact.java

C:\Users\Nikhil\Desktop\bsc cs\sem 3 practical\java>java CallFact

factorial is120