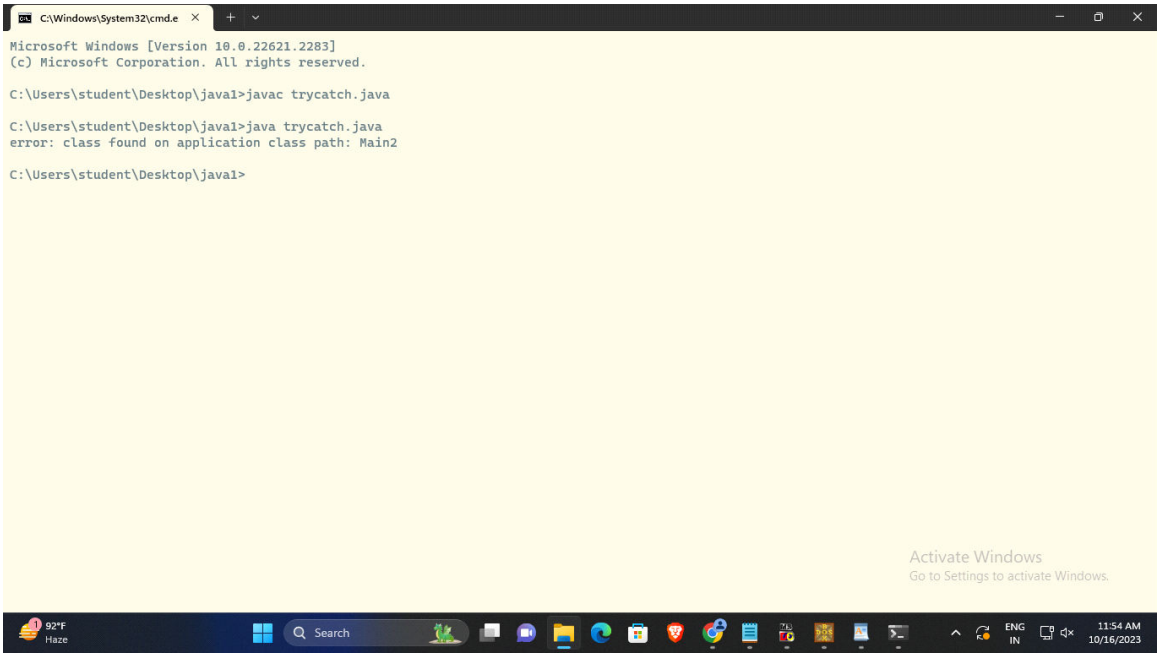
Implement a program on Exception Handling

1)Try-catch

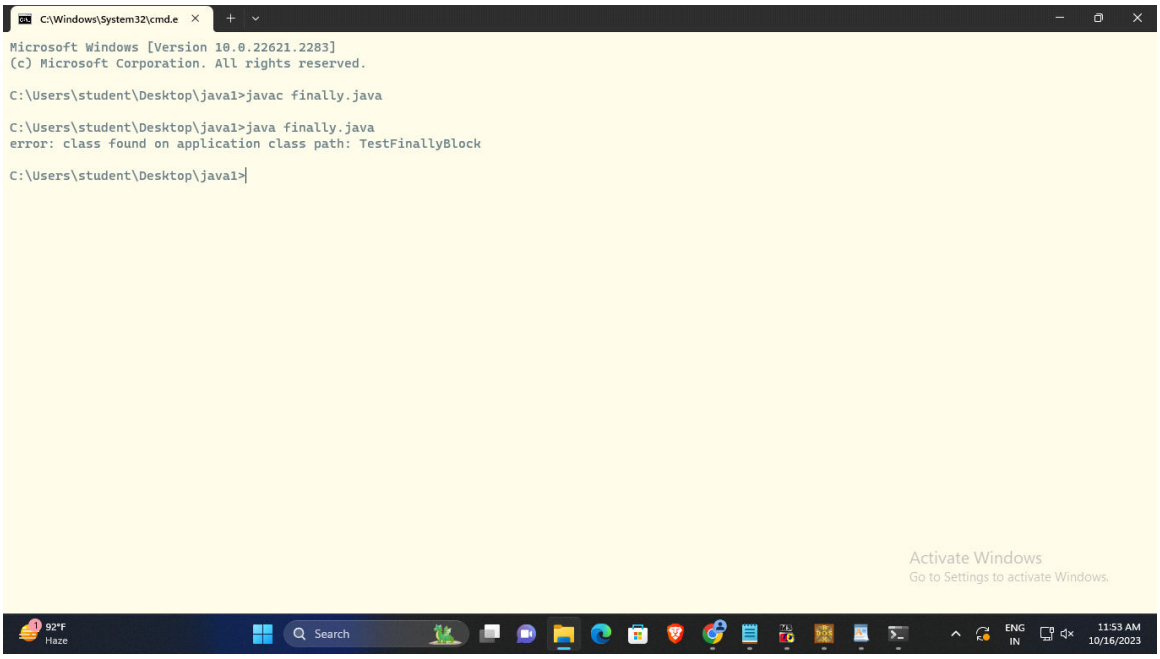
```
class Main2
{
public static void main(String args[])
{
try{
  int divideByZero = 8/0;
  System.out.println("Rest of code in try block");
    }

    catch (ArithmeticException e) {
      System.out.println("ArithmeticException => " +
e.getMessage());
    }
  }
}
```



2)finally

```
class TestFinallyBlock {
  public static void main(String args[]){
  try{
   int data=25/5;
   System.out.println(data);
  }
  catch(NullPointerException e){
System.out.println(e);
}
 finally {
System.out.println("finally block is always executed");
}
```

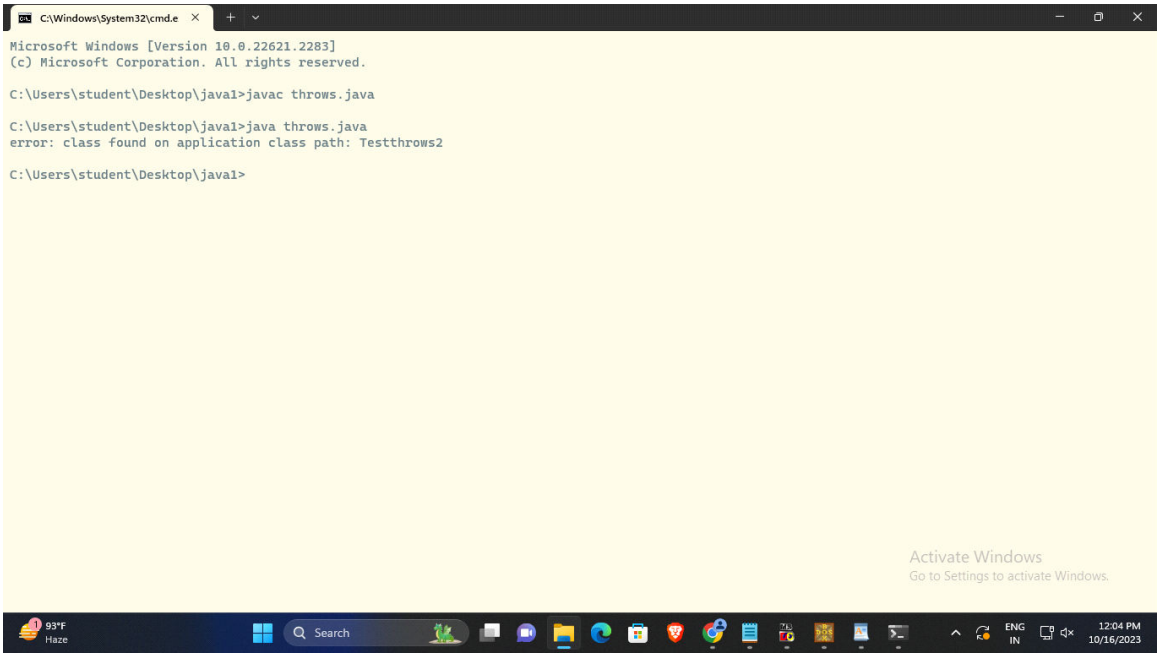
```
System.out.println("rest of phe code...");
  }
}
```



3)throws

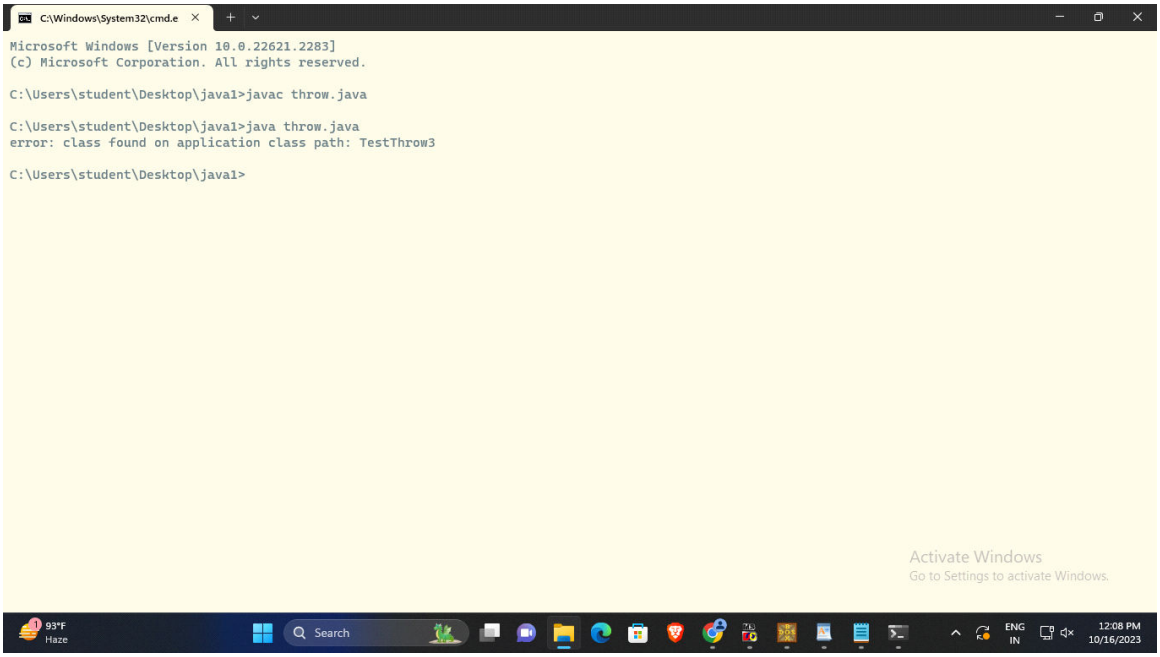
```
class Testthrows2{
  public static void main(String args[]){
   try{
    M m=new M();
    m.method();
```

```
    }catch(Exception e){System.out.println("exception handled");}


    System.out.println("normal flow...");
  }
}
class M{
 void method()throws IOException{
  throw new IOException("device error");
 }
}
```



4)throw

```
 class TestThrow3
{
    public static void main(String args[])
    {
        try
        {
            throw new UserDefinedException("This is user-
defined exception");
        }
        catch (UserDefinedException ude)
        {
            System.out.println("Caught the exception");
            System.out.println(ude.getMessage());
        }
    }
}
class UserDefinedException extends Exception
{
    public UserDefinedException(String str)
    {
        super(str);
    }
}
```


C:\Windows\System32\cmd.e
Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.
C:\Users\student\Desktop\java1>javac throw.java
C:\Users\student\Desktop\java1>java throw.java
error: class found on application class path: TestThrow3
C:\Users\student\Desktop\java1>
Activate Windows
Go to Settings to activate Windows.
93°F
Haze
Search
ENG
IN
12:08 PM
10/16/2023