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());

    }

  }

}
```

```
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C:\Users\student\Desktop\java1>javac trycatch.java

C:\Users\student\Desktop\java1>java trycatch.java
error: class found on application class path: Main2

C:\Users\student\Desktop\java1>
```

2)finally

class TestFinallyBlock {

  public static void main(String args[]){

  try{

    int data=25/5;

    System.out.println(data);

  }

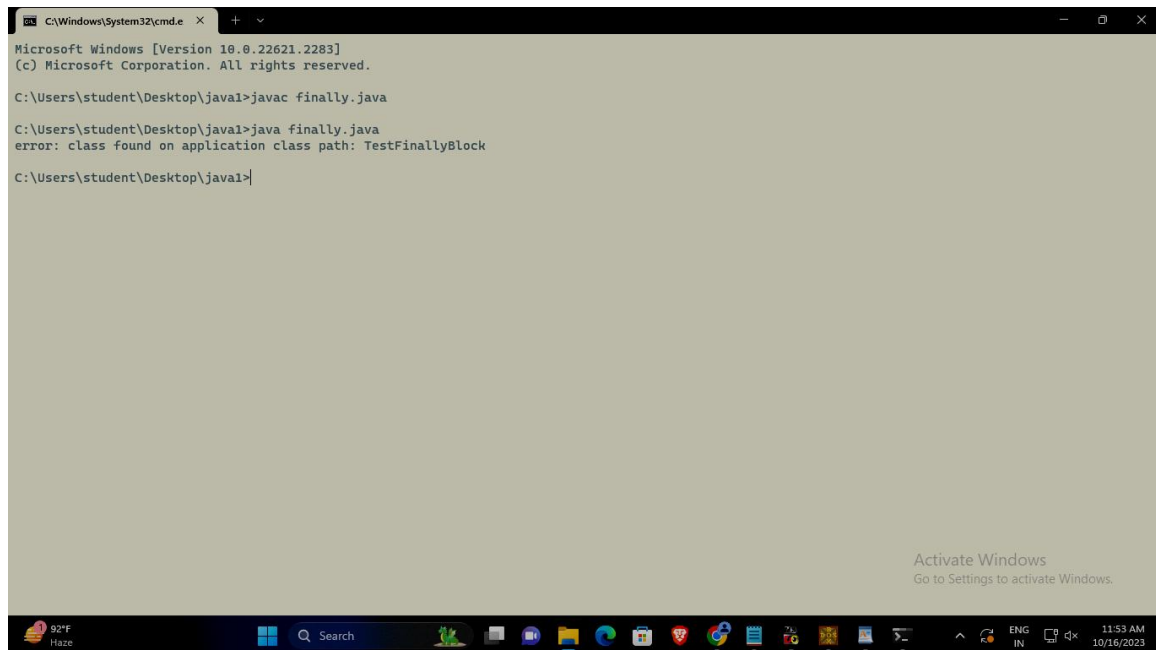 catch(NullPointerException e){

System.out.println(e);

}

  finally {

System.out.println("finally block is always executed");

}

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

  }

}

```
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Microsoft Windows [Version 10.0.22621.2283]
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C:\Users\student\Desktop\java1>javac finally.java

C:\Users\student\Desktop\java1>java finally.java
error: class found on application class path: TestFinallyBlock

C:\Users\student\Desktop\java1>
```

3)throws

```java
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");

  }

}
```
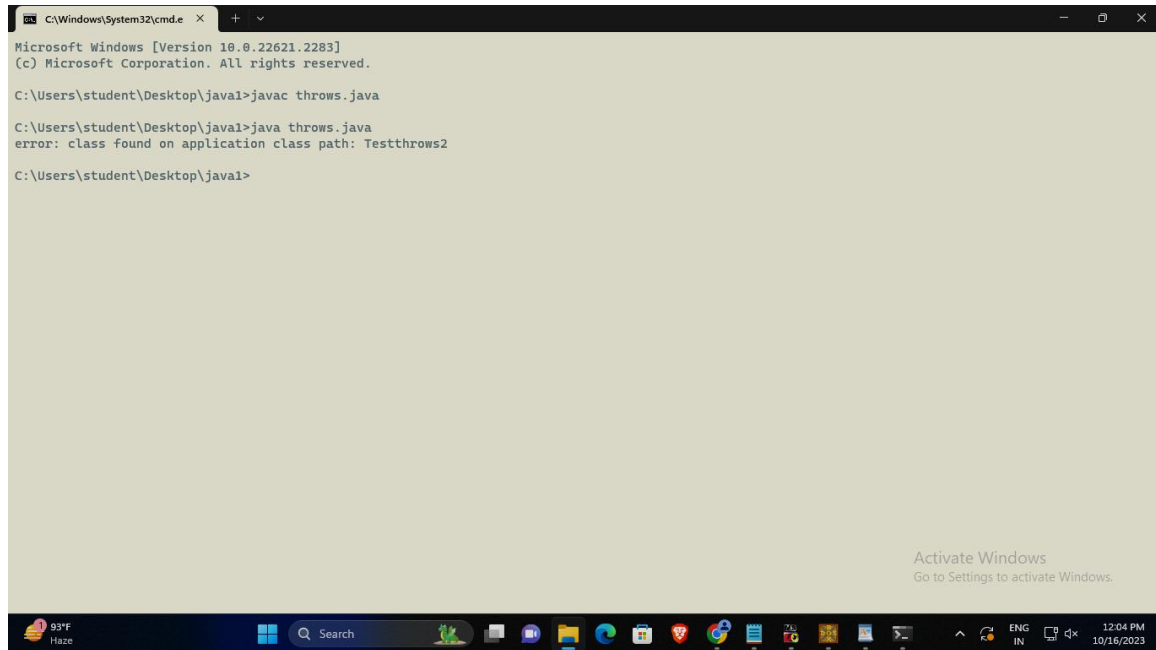
```
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C:\Users\student\Desktop\java1>javac throws.java

C:\Users\student\Desktop\java1>java throws.java
error: class found on application class path: Testthrows2

C:\Users\student\Desktop\java1>
```

4)throw

```
class TestThrow3

{

    public static void main(String args[])

    {

        try

        {

            throw new UserDefinedException("This is user-

defined exception");
```

```java
        }

        catch (UserDefinedException ude)

        {

                System.out.println("Caught the exception");

                System.out.println(ude.getMessage());

        }

    }

}

class UserDefinedException extends Exception

{

    public UserDefinedException(String str)

    {

        super(str);

    }

}
```

```
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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>
```