

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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Microsoft Windows [Version 10.0.22621.2428]
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C:\Users\karti\OneDrive\Desktop\dlca>javac except.java

C:\Users\karti\OneDrive\Desktop\dlca>java except.java
ArithmeticException => / by zero

C:\Users\karti\OneDrive\Desktop\dlca>
```

2)finally

```
class TestFinallyBlock {

    public static void main(String args[]){

        try{

            int data=25/5;

            System.out.println(data);

        }

        catch(NullPointerException e){

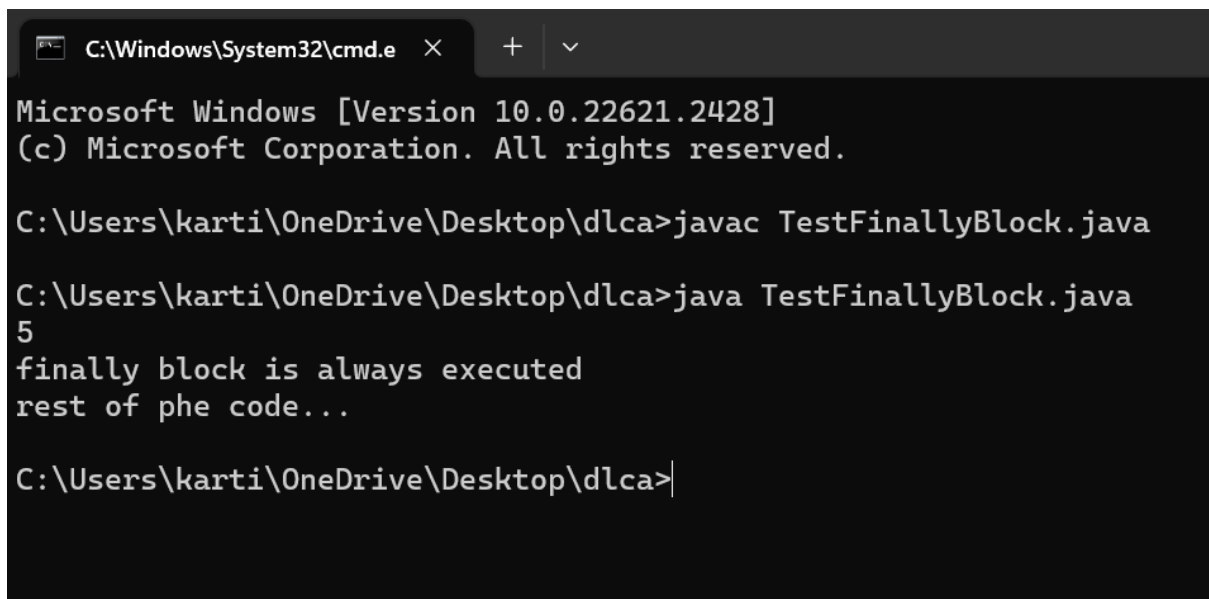
            System.out.println(e);

        }

        finally {
```

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

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



```
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Microsoft Windows [Version 10.0.22621.2428]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\karti\OneDrive\Desktop\dlca>javac TestFinallyBlock.java  
  
C:\Users\karti\OneDrive\Desktop\dlca>java TestFinallyBlock.java  
5  
finally block is always executed  
rest of phe code...  
  
C:\Users\karti\OneDrive\Desktop\dlca>
```

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...");

    }

}

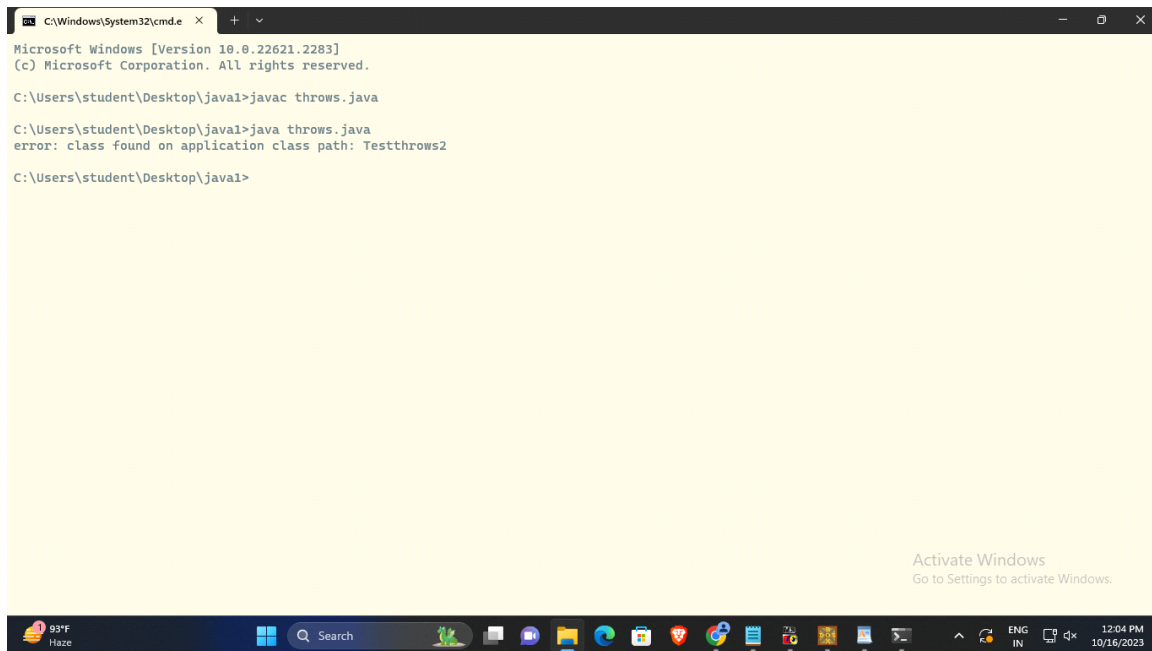
class M{

    void method()throws IOException{

        throw new IOException("device error");

    }

}
```



```
C:\Windows\System32\cmd.exe
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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>
```

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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.exe
Microsoft Windows [Version 10.0.22621.2283]
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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>
```

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