

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");
```

```
    }
```

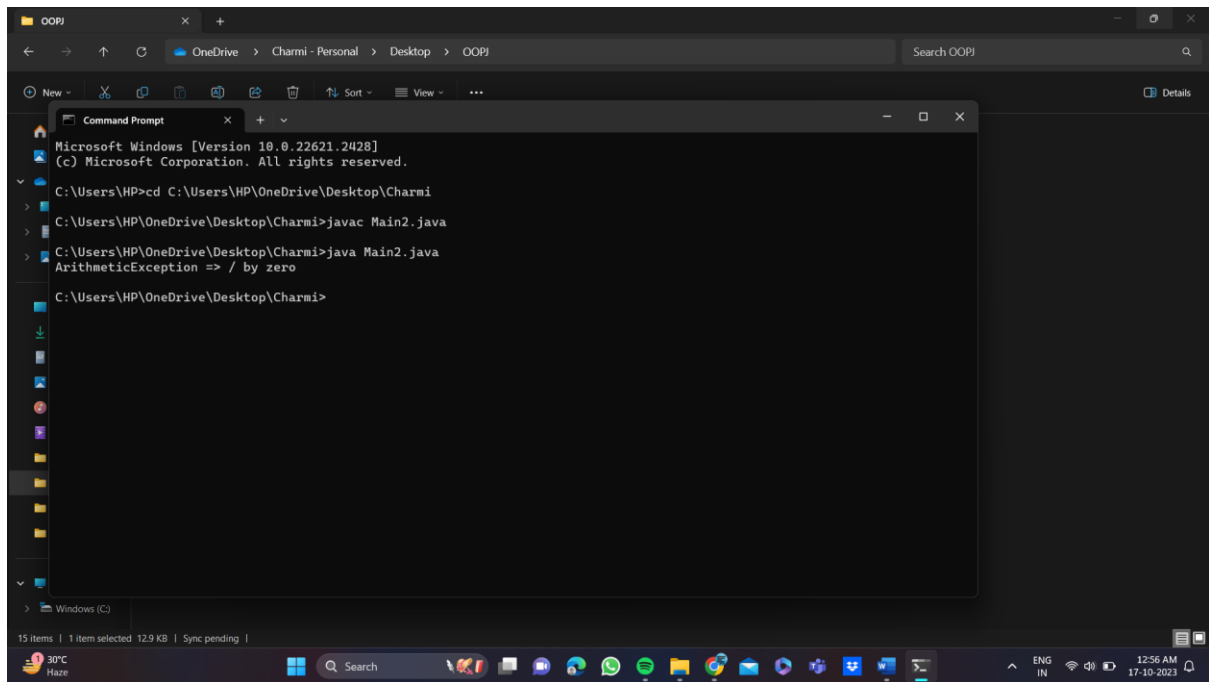
```
    catch (ArithmeticException e) {
```

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

```
    }
```

```
}
```

```
}
```



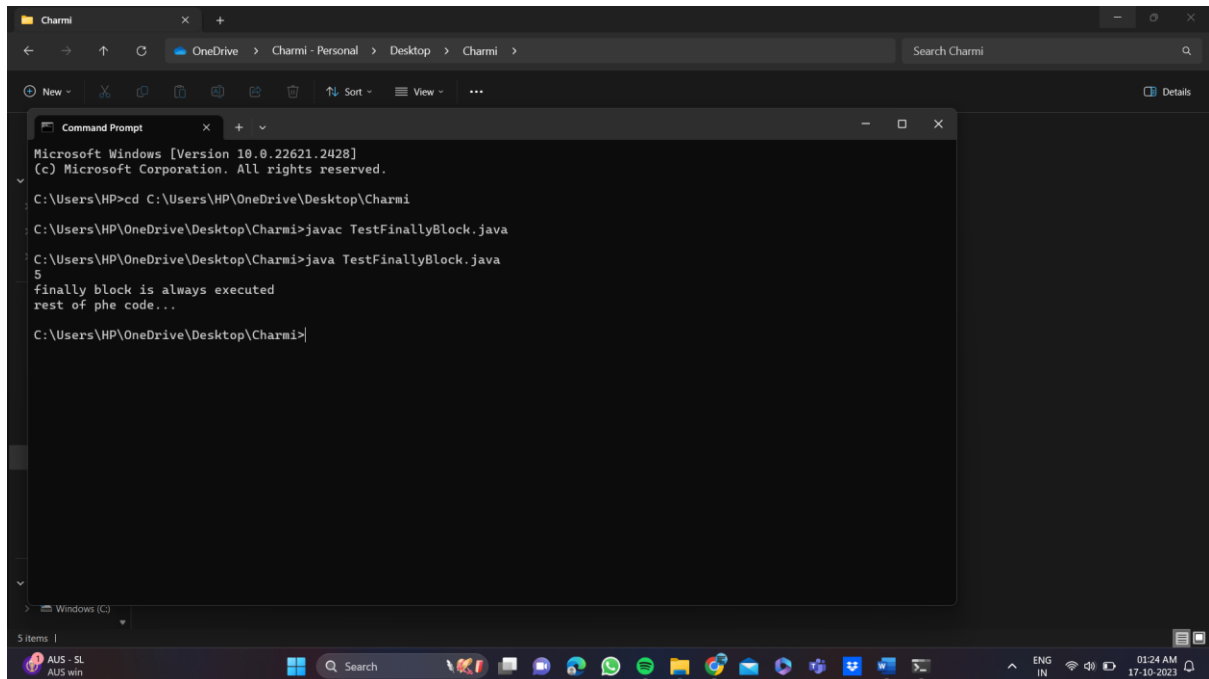
2)finally

```
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...");
    }
}

```



```

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(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>cd C:\Users\HP\OneDrive\Desktop\Charmi

C:\Users\HP\OneDrive\Desktop\Charmi>javac TestFinallyBlock.java

C:\Users\HP\OneDrive\Desktop\Charmi>java TestFinallyBlock.java
5
finally block is always executed
rest of phe code...

C:\Users\HP\OneDrive\Desktop\Charmi>

```

3)throws

```

import java.io.IOException;

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\HP>cd C:\Users\HP\OneDrive\Desktop\Charmi
C:\Users\HP\OneDrive\Desktop\Charmi>javac throws.java
C:\Users\HP\OneDrive\Desktop\Charmi>javac throws.java
C:\Users\HP\OneDrive\Desktop\Charmi>java throws.java
exception handled
normal flow...
C:\Users\HP\OneDrive\Desktop\Charmi>

```

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);
    }
}
```

