

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());
```

```
    }
```

```
}
```

```
}
```

```
C:\Users\admin\Desktop\kirandhuri07\New folder>java Main2.java  
ArithmeticException => / by zero
```

```
C:\Users\admin\Desktop\kirandhuri07\New folder>|
```

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 the code...");  
    }  
}
```

```
C:\Users\admin\Desktop\kirandhuri07\New folder>java TestFinallyBlock.java
5
finally block is always executed
rest of the code...

C:\Users\admin\Desktop\kirandhuri07\New folder>|
```

3) throws

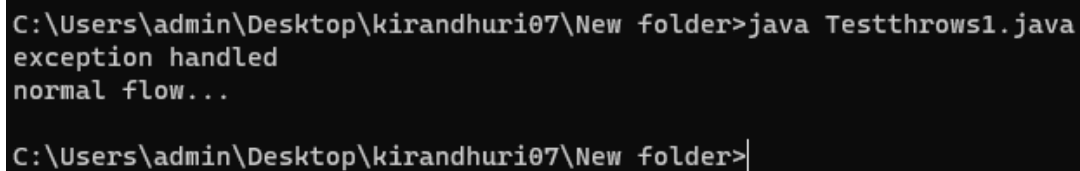
```
import java.io.IOException;

class Testthrows1{
    void m()throws IOException{
        throw new IOException("device error");//checked
        exception
    }
    void n()throws IOException{
        m();
    }
    void p(){
        try{
            n();
        }catch(Exception e){System.out.println("exception
        handled");}
```

```

    }
    public static void main(String args[]){
        Testthrows1 obj=new Testthrows1();
        obj.p();
        System.out.println("normal flow...");
    }
}

```



```

C:\Users\admin\Desktop\kirandhuri07\New folder>java Testthrows1.java
exception handled
normal flow...

C:\Users\admin\Desktop\kirandhuri07\New folder>

```

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:\Users\admin\Desktop\kirandhuri07\New folder>java TestThrow3.java
Caught the exception
This is user-defined exception

C:\Users\admin\Desktop\kirandhuri07\New folder>|

```

