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());
Microsoft Windows [Version 10.0.22621.1992]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Vedika\Desktop\S3-45>javac Main2.java
C:\Users\Vedika\Desktop\S3-45>java Main2.java
ArithmeticException => / by zero
```

```
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...");
 }
}
```

```
Microsoft Windows [Version 10.0.22621.1992]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Vedika\Desktop\S3-45>javac TestFinallyBlock.java
C:\Users\Vedika\Desktop\S3-45>java
C:\Users\Vedika\Desktop\S3-45>java TestFinallyBlock.java
finally block is always executed
rest of phe code...
```

3)throws

```
class Testthrows2{
 public static void main(String args[]){
  try{
   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);
Microsoft Windows [Version 10.0.22621.1992]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Vedika\Desktop\S3-45>javac TestThrow3.java
C:\Users\Vedika\Desktop\S3-45>java TestThrow3.java
Caught the exception
 This is user-defined exception
```