

1.

```
1
2 public class ExceptionHandling {
3
4     public static void main(String[] args)
5     {
6         int a = 10;
7         int b = 0;
8         try {
9             System.out.println(a / b); // exception is thrown in try block
10        }
11        // Exception is handled in catch block
12        catch (ArithmeticException e) {
13
14            System.out.println(
15                "Division by number zero is not possible");
16        }
17    }
18 }
19
20
21
```

Console

<terminated> ExceptionHandling [Java Application] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (06-Aug-2021, 4
Division by number zero is not possible

3.

```
import java.util.*;
import java.util.Scanner;
class ExceptionHandling
{
    static void fun() throws IllegalAccessException
    {
        double balance = 2000, wamount;

        Scanner wd=new Scanner(System.in);
        System.out.println("Withdraw an amount");
        wamount=wd.nextInt();
    }
}
```

```

        if (balance<0)
        {
            throw new IllegalAccessException();
        }
        else
            System.out.println(balance);
    }

    public static void main(String args[])
    {

        try
        {
            fun();
        }
        catch(IllegalAccessException ex)
        {
            System.out.println("Insuffiecient Balance Exception");
        }
    }
}

```

Console

<terminated> ExceptionHandling [Java Application] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (06-Aug-2021, 6:20:29 pm – 6:20:42 pm)

Withdraw an amount

2100

Insuffiecient Balance Exception

Console

<terminated> ExceptionHandling [Java Application] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (06-Aug-2021, 8:53:19 pm – 8:54:14 pm)

Withdraw an amount

-200

Illegal Bank Transaction

2.

```
import java.util.Scanner;

public class ExceptionHandling extends Exception{
    public static void main(String[] args) {
        Scanner scanner=new Scanner(System.in);
        System.out.println("Enter num1:");
        int num1=scanner.nextInt();
        System.out.println("Enter num2:");
        int num2=scanner.nextInt();
        scanner.close();
        try {
            int result = num1/num2;
            System.out.println(result);
        }catch(Exception e) {
            e.printStackTrace();
            throw new UnsupportedOperationException();
        }
        finally {
            System.out.println("You can't divide integer by 0");
        }
    }
}

Enter num1:
10
Enter num2:
0
java.lang.ArithmeticException: / by zero
You can't divide integer by 0
    at ExceptionHandling.main(ExceptionHandling.java:12)
Exception in thread "main" java.lang.UnsupportedOperationException
    at ExceptionHandling.main(ExceptionHandling.java:16)
```