```
| [1] INPUTMISMATCH EXCEPTION |
+----+
import java.util.*;
public class Task_1 {
        public static void main(String[] args) {
               Scanner input = new Scanner (System.in);
               boolean check = true;
               do {
                       try {
                               System.out.print("Enter two integers : ");
                               int sum = input.nextInt() + input.nextInt();
                               System.out.println("Sum is : " +sum);
                               check = false;
                        }
                        catch(InputMismatchException ex) {
                               System.out.println("Invalid input. Try again");
                               input.nextLine();
                       }
               }while(check);
       }
[2] INPUTMISMATCH EXCEPTION |
import java.util.*;
public class Task_2 {
        public static void main(String[] args) {
               Scanner input = new Scanner (System.in);
               int [] arr = new int [100];
               for(int i =0; i < 100; i++) {
                        arr[i] = (int)(Math.random()* 100);
               boolean takeInput = true;
               do {
                       try {
                       System.out.print("Enter index number : ");
                        int index = input.nextInt();
                        if(index < 0 \mid | index > 99)
                               throw new ArrayIndexOutOfBoundsException("Index Out
of bounds");
                       for(int i = 0; i < 100; i++) {
                               if(i == index) {
```

```
System.out.println("Value is : " +arr[i]);
                                         takeInput = false;
                                }
                         }
                  catch(ArrayIndexOutOfBoundsException ex) {
                          System.out.println("Wrong index. Try again");
                          input.nextLine();
                  }
                  catch(Exception ex1) {
                                System.out.println(ex1.getMessage());
                        }
                }while(takeInput);
        }
}
[3] BINARY TO DECIMAL EXCEPTION |
import java.util.Scanner;
public class Task_3 {
        public static void main(String[] args) {
                Scanner input = new Scanner (System.in);
                String bin;
                try {
                        System.out.print("Enter any binary number : ");
                        bin = input.next();
                        System.out.println("Decimal value is : " +binToDec(bin));
                catch(NumberFormatException ex) {
                        System.out.println("Invalid input.");
                }
public static int binToDec(String bin) throws NumberFormatException{
                int dec = 0;
                for(int i =0 , j = bin.length()-1 ; i <bin.length(); i++,j--) {</pre>
                        if(bin.charAt(i) != '0' && bin.charAt(i)!= '1')
                                throw new NumberFormatException("Invalid");
                        dec += Integer.parseInt(String.valueOf(bin.charAt(i))) *
Math.pow(2,j);
                return dec;
        }
}
```

```
[4] FILE |
+----+
package File;
import java.util.*;
import java.io.*;
public class CountTest {
        public static void main(String[] args) throws IOException {
                if(args.length < 1) {</pre>
                        System.out.println("Can't find.");
                        System.exit(1);
               File file = new File(args[0]);
                if(!file.exists()) {
                        System.out.println("File "+args[0]+ " doesn't exists.");
                        System.exit(2);
               int lines = 0;
               int words = 0;
               int characters = 0;
               try {
                        Scanner input = new Scanner(file);
                        while(input.hasNext()) {
                                String line = input.nextLine();
                                lines++;
                                characters+= line.length();
                                String[] word = line.split(" ");
                                words+= word.length;
                        }
                catch(IOException ex) {
                        System.out.println(ex.getMessage());
               }
                System.out.println("Total characters : " +characters);
                System.out.println("Total words : " +words);
                System.out.println("Total lines : " +lines);
        }
| [5] FILE SCORE |
+----+
package File;
import java.util.*;
import java.io.*;
```

```
public class ScoresCount {
        public static void main(String[] args) throws FileNotFoundException {
               Scanner input = new Scanner (System.in);
               System.out.println("Enter a file loctaion with scores : ");
               File file = new File(input.nextLine());
               if(!file.exists()) {
                        System.out.println("File not found");
                       System.exit(1);
               if(file.exists()) {
                       System.out.println("file opened.");
               double score = 0;
               double average = 0;
               int count = 0;
               try(Scanner inputFile = new Scanner(file)) {
                       while(inputFile.hasNext()) {
                               System.out.println("IN FILE " +inputFile.nextInt());
                               score+= inputFile.nextInt();
                               count++;
                        }
               }
               catch(Exception ex) {
                       System.out.println("File not found.");
               System.out.println("Total is : " +score);
               System.out.println("Average is : " +score/count);
       }
[6] FILE READ WRITE
+----+
package File;
import java.util.*;
import java.io.*;
public class FileReadWrite {
        public static void main(String[] args) throws IOException {
               File file = new File("Exercise12_15.txt");
               if(!file.exists()) {
               file.createNewFile();
               }
               else
```

```
System.out.println("file already exists");
//WRITING
                try(PrintWriter output = new PrintWriter(file)){
                        for(int i = 0; i <100; i++) {
                                int ran = (int)(Math.random()* 100);
                                output.print(ran);
                                output.print(" ");
                        output.close();
                }
//READING
                ArrayList<Integer> list = new ArrayList<>();
                try(Scanner input = new Scanner(file)){
                        while(input.hasNext()) {
                                list.add(input.nextInt());
                        }
                }
                java.util.Collections.sort(list);
                System.out.println("Sorted List : " +list.toString());
        }
}
```