# Chapter 12 Practice Set Questions by Munawar

### Questions

1. Write a Java program to demonstrate Syntax, logical and runtime errors.

#### Solution

2. Write a Java program that print "Haha" during Arithmetic exception and "Hehe" during an illegal argument exception.

#### Solution

```
// Question 2
try {
    int a=877/0; // print hehe

//
    int b=666/9; // print haha
}catch (IllegalArgumentException e) {
    System.out.println("Haha");
}catch (ArithmeticException e) {
    System.out.println("Hehe");
```

```
// Question 2
goodMorning goodt=new goodMorning();
welcome wellt=new welcome();
goodt.start();
wellt.start();
```

3. Write a program that allows you to keep accessing an array until a valid index is given id max retries exceed 5 print "Error".

#### Solution

```
// Question 3
boolean flag=true;
int [] marks=new int[3];
marks[0]=99;
marks[1]=100;
marks[2]=120;

Scanner sc=new Scanner(System.in);
int index;
int i=0;
while (flag && i<5) {

    try {
        System.out.println("Enter the value of index: ");
        index=sc.nextInt();
        System.out.println("The value of marks[index] is "+marks[index]);
        break;
} catch (Exception e) {
        System.out.println("Invalid Index");
        i++;
    }
if(i>=5) {
        System.out.println("Error...");
    }
}
```

4. Modify program in Question 3 to throw a custom exception of more returns are reached.

Solution

### **Self-Question**

5. Wrap the program in Question 3 inside a method which throws your custom Exception.

Solution

**Self-Question** 

## Source code:

```
import java.security.PublicKey;
import java.util.Scanner;
```

```
index=sc.nextInt();
```

## Thank You