Set A

1)

2١

3)

```
class calculator {
  public int divide(int a, int b) {
    return a / b;
  }
}

public class TestCalculato {
  public static void main(String[] args) {
    calculator calc = new calculator();
    try {
        int result = calc.divide(10, 0);
        System.out.println(result);
    } catch (ArithmeticException e) {
        System.out.println("Cannot divide by zero.");
}
}
```

4)

```
public class ArrayIndexOutOfBounds {
   public static void main(String[] args) {
      int[] numbers = {1, 2, 3};
      try {
            System.out.println(numbers[3]);
      } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("Caught ArrayIndexOutOfBoundsException.");
      }
}
                                                                                                                                                                                                                                                                                             Caught ArrayIndexOutOfBoundsException.
```