Q1

```
package com.cdac;

public class Try_Catch {

	public static void main(String[] args) {
		try {
			int num1 = 10;
			int num2 = 0;

			// Division by Zero
			int result = num1/num2;

			// This line will not be executed if an exception occurs
above
			System.out.println("Result :" +result);
		}
		catch (ArithmeticException e) {
			// Catching the ArithmeticException
		    System.out.println("An arithmetic exception occurred: " +
e.getMessage());
		}

	}

}
```

Q2

```
package com.cdac;

public class IntException {

	public static void check(int n)throws Exception {
		if (n%2!=0) {     // here it will check its odd or even
			throw new Exception ("Odd number!");
		}
	}
	public static void main(String []args) {
		try {
			check(7); // I have put hard core value
			System.out.println("Its even");
		}catch (Exception e) {
			System.out.println(e.getMessage());
		}

	}
```

```
}
```

Q3

```
package com.cdac;

public class ArrayIndexOutOfBoundsExample {
    public static void main(String[] args) {
        int[] array = {1, 2, 3, 4, 5};

        try {
            // Accessing an array index beyond to check the array size
            int value = array[10];
            System.out.println("Value at index 10: " + value);       // This line
will not be executed
        } catch (ArrayIndexOutOfBoundsException e) {
            // Catching the ArrayIndexOutOfBoundsException
            System.out.println("Exception caught: " + e.getMessage());
        }
    }
}
```

Q4

```
package com.cdac;

public class ArithmeticExceptionExample {
    public static void main(String[] args) {
        try {
            // Division by zero
            int result = 10 / 0;     // This will throw an ArithmeticException
            System.out.println("Result of division: " + result);      // This line
will not be executed. it will execute when given no is divisible of 10
        } catch (ArithmeticException e) {
            // Catching ArithmeticException
            System.out.println("ArithmeticException caught: " + e.getMessage());
        } catch (Exception e) {
            // Catching any other exceptions
            System.out.println("Exception caught: " + e.getMessage());
        }
    }
}
```