

Question 01:

```
import java.util.Scanner;
```

```
public class Division {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
        System.out.print("Enter the numerator: ");  
        int numerator = scanner.nextInt();  
  
        System.out.print("Enter the denominator: ");  
        int denominator = scanner.nextInt();  
  
        try {  
            int result = divide(numerator, denominator);  
            System.out.println("Result: " + result);  
        } catch (ArithmeticException e) {  
            System.out.println("Error: Cannot divide by zero.");  
        }  
    }  
}  
  
public static int divide(int numerator, int denominator) {  
    return numerator / denominator;  
}  
}
```

Question 02:

```
public class ArrayAccess {  
    public static void main(String[] args) {  
        int[] arr = { 1, 2, 3, 4, 5 };  
  
        try {
```

```

        int index = 10; // Trying to access an index that is out of bounds

        int value = arr[index];

        System.out.println("Value at index " + index + ": " + value);
    } catch (ArrayIndexOutOfBoundsException e) {
        System.out.println("Error: Invalid index. Array index is out of bounds.");
    }
}
}

```

Question 03:

```

import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;

public class FileRead {
    public static void main(String[] args) {
        File file = new File("nonexistent_file.txt");

        try {
            Scanner scanner = new Scanner(file);
            while (scanner.hasNextLine()) {
                String line = scanner.nextLine();
                System.out.println(line);
            }
            scanner.close();
        } catch (FileNotFoundException e) {
            System.out.println("Error: File not found.");
        }
    }
}

```