

```
package quiz;
```

```
/**
```

```
/* Aim : Write a Program to implement user defined Exception in java.
```

```
/* Name : Sayyad Mohamed Samar
```

```
/* UIN : 231P082
```

```
/* Div : A.
```

```
*/
```

```
import java.util.*;
```

```
public class Month {
```

```
    public static void main(String[] args) {
```

```
        // TODO Auto-generated method stub
```

```
        int n;
```

```
        Scanner sc = new Scanner(System.in);
```

```
        do {
```

```
            System.out.println("Enter a number: ");
```

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

```
            try {
```

```
                if(n<1 || n>12)
```

```
                {
```

```
                    throw new ArithmeticException();
```

```
                }
```

```
                System.out.println("The entered number is "+n);
```

```
            }
```

```
            catch(ArithmeticException ae) {
```

```
                System.out.println("Invalid Number")
```

```
            }
```

```
        }while(n!=0);}}
```

```
package quiz;
```

```
/**
```

```
/* Aim : Write a program to perform division of two numbers accepted from user.  
Handle the IOException, NumberFormatException and also handle the divide by  
exception using multiple try catch block.
```

```
/* Name : Sayyad Mohamed Samar
```

```
/* UIN : 231P082
```

```
/* Div : A.
```

```
*/
```

```
import java.io.BufferedReader;
```

```
import java.io.IOException;
```

```
import java.io.InputStreamReader;
```

```
import java.util.*;
```

```
public class Exceptions {
```

```
    public static void main(String[] args) {
```

```
        // TODO Auto-generated method stub
```

```
        BufferedReader sc = new BufferedReader(new  
InputStreamReader(System.in));
```

```
        try {
```

```
            String input1;
```

```
            String input2;
```

```
            System.out.print("Enter the first number: ");
```

```
            input1 = sc.readLine();
```

```
            System.out.print("Enter the second number: ");
```

```

        input2 = sc.readLine();

try {
    int num1 = Integer.parseInt(input1);
    int num2 = Integer.parseInt(input2);
    try {
        int result = num1 / num2;
        System.out.println("The result is: " + result);
    }
    catch (ArithmeticException e) {
        System.out.println("Error: Cannot divide by zero.");
    }

    } catch (NumberFormatException e) {
        System.out.println("Error: Please enter valid integer numbers.");
    }

    } catch (IOException e) {
        System.out.println("Error: An I/O error occurred while reading
input.");
    }
    System.out.println("\nThank You ");
    System.out.println("Name : Sayyad Mohamed Samar");
    System.out.println("\nUIN : 231P082");
}
}

```

```
package quiz;

import java.util.Scanner;

/**
 * Aim : Write a program to perform division of two numbers accepted from user.
 * Handle the NumberFormatException and also handle the divide by exception using
 * nested try catch block.
 * Name : Sayyad Mohamed Samar
 * UIN : 231P082
 * Div : A.
 */

public class ExceptionHandling {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        Scanner sc = new Scanner(System.in);

        try {

            System.out.print("Enter the first number: ");

            String input1 = sc.nextLine();

            int num1 = Integer.parseInt(input1);

            System.out.print("Enter the second number: ");

            String input2 = sc.nextLine();

            int num2 = Integer.parseInt(input2);

            try {
```

```
        int result = num1 / num2;

        System.out.println("The result is: " + result);
    } catch (ArithmeticException e) {

        System.out.println("Error: Cannot divide by zero.");
    }

} catch (NumberFormatException e) {

    System.out.println("Error: Please enter valid integer numbers.");
}

    System.out.println("\nThank You ");

    System.out.println("Name : Sayyad Mohamed Samar");

    System.out.println("\nUIN : 231P082");
}

}
```