# 2022
### March

# Software Construction and Development

# Lab 05

Roll No:   K191048

Name:    Amman Soomro

Section:  SE – A

## CODE

```java
package Task01;
import java.util.Scanner;

public class Task1 {

    public static void main(String[] args) throws Exception{
        String message;
        Scanner input = new Scanner(System.in);
        System.out.println("Enter a Message: ");
        message=input.nextLine();
        try {
            message = message.toUpperCase();
            if(message.contains("A") | message.contains("B"))
            {

                throw new Exception();
            }
        }

        catch (Exception Mashood) {
            System.out.println("Some Error has Occured" );

        }
    }

}
```
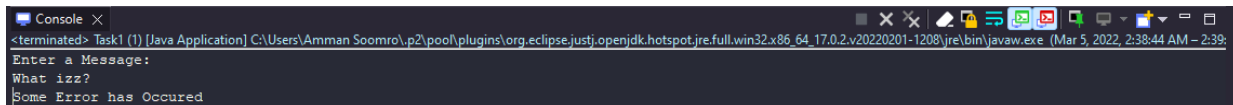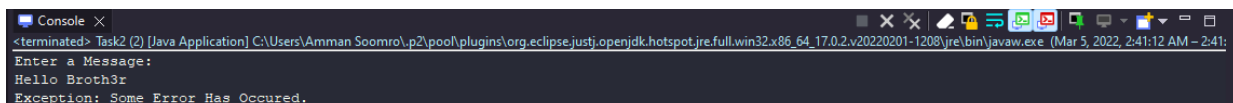
## OUTPUT

```
Console X                                                                    ■ X ✕ | ✐ 🔒 ⇉ 📷 📷 🖳 💻 ▾ 🔳 ▾ ▭ ▯
<terminated> Task1 (1) [Java Application] C:\Users\Amman Soomro\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe  (Mar 5, 2022, 2:38:44 AM – 2:39:
Enter a Message:
What izz?
Some Error has Occured
```

## CODE

```java
package Task02;
import java.util.Scanner;
class invalidCharacter extends Exception{
    public invalidCharacter(){}
    public String toString(){
        return "Some Error Has Occured.";
    }
}
public class Task2 {
    public static void main(String[] args) {
        String message;
        System.out.println("Enter a Message: ");
        Scanner input = new Scanner(System.in);
        message= input.nextLine();
        input.close();
        try {
            message = message.toUpperCase();
            if(!(message.matches("[A-Za-z]+"))){
                throw new invalidCharacter();
            }
        }
        catch (invalidCharacter Mashood) {
            System.out.println("Exception: " + Mashood );
        }
    }
}
```
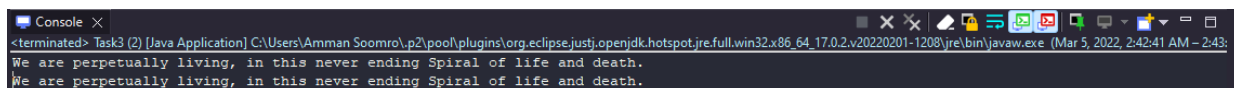
## OUTPUT



```
Console ×
<terminated> Task2 (2) [Java Application] C:\Users\Amman Soomro\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (Mar 5, 2022, 2:41:12 AM – 2:41:
Enter a Message:
Hello Broth3r
Exception: Some Error Has Occured.
```

## QUESTION 03

### CODE

```java
package Task03;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.FileInputStream;
import java.util.Scanner;
public class Task3
{
    public static void main(String[] args) throws IOException {
        FileOutputStream out =   new FileOutputStream("output.txt", false);
        Scanner input = new Scanner(System.in);
        String str1 = input.nextLine();
        input.close();
        byte[] b = str1.getBytes();
        out.write(b);
        out.close();
        FileInputStream in = new FileInputStream("output.txt");
        String str2 = "";
        int i = 0;
        while((i = in.read()) != -1)
            str2 += (char)i;
        System.out.println(str2);
    }
}
```

### OUTPUT



```
Console ×
<terminated> Task3 (2) [Java Application] C:\Users\Amman Soomro\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe  (Mar 5, 2022, 2:42:41 AM – 2:43:
We are perpetually living, in this never ending Spiral of life and death.
We are perpetually living, in this never ending Spiral of life and death.
```