

IS2104 - Rapid Application Development

2020 Activity 3

1.Calculator

```
import java.util.*;

public class Calculator{

    public static void main(String args[]){
        int num1;
        int num2;
        char option;
        Scanner scan= new Scanner(System.in);

        System.out.print("Enter first number: ");
        num1=scan.nextInt();

        System.out.print("Enter second number: ");
        num2=scan.nextInt();

        System.out.println("");

        System.out.print("Enter an operator <+ , - , / , *>: ");
        option = scan.next().charAt(0);

        switch(option){
            case '+':
                System.out.println( num1+" + "+num2+" = "+(num1+num2));
                break;
            case '-':
                System.out.println(+num1+" - "+num2+" = "+(num1-num2));
                break;
            case '/':
                System.out.println(+num1+" / "+num2+" = "+(float) num1/num2);
                break;
            case '*':
                System.out.println(+num1+" * "+num2+" is = "+(num1*num2));
                break;

            default:
                System.out.println("Incorrect Operator");
        }
    }
}
```

```
Command Prompt
Microsoft Windows [Version 10.0.17134.1069]
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C:\Users\Hansika>cd Desktop

C:\Users\Hansika\Desktop>javac Calculator.java

C:\Users\Hansika\Desktop>java Calculator
Enter first number: 14
Enter second number: 5

Enter an operator <+ , - , / , *>: /
14 / 5 = 2.8

C:\Users\Hansika\Desktop>
```

```
Command Prompt
Microsoft Windows [Version 10.0.17134.1069]
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C:\Users\Hansika>cd Desktop

C:\Users\Hansika\Desktop>javac Calculator.java

C:\Users\Hansika\Desktop>java Calculator
Enter first number: 54
Enter second number: 76

Enter an operator <+ , - , / , *>: ?
Incorrect Operator

C:\Users\Hansika\Desktop>
```

2.Random numbers

```
import java.util.Random;

public class random {
    public static void main(String[] args){
        Random random= new Random();
        for (int i=0; i<5; i++){
            int randomnumber= random.nextInt(100);
            if (randomnumber<50)
            {
                System.out.println(randomnumber + ":" + "low");
            }
            else
            {
                System.out.println(randomnumber + ":" + "high");
            }
        }
    }
}
```

```
Command Prompt
Microsoft Windows [Version 10.0.17134.1069]
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C:\Users\Hansika>cd Desktop

C:\Users\Hansika\Desktop>javac random.java

C:\Users\Hansika\Desktop>java random
9:low
37:low
22:low
0:low
25:low

C:\Users\Hansika\Desktop>
```