

IS2104 - Rapid Application Development

2020 Practical - 11

Java packages

W.H.M.Gunathilaka

18020275

## Question A

```
ShapeMain.java x PatternMain.java x new 2.java x Main2.java x example.java x BMI.java x SimpleCalculator.java x TaxCalculation.java x
1 package calculator;
2
3 public class SimpleCalculator{
4     public int interestCalculation(int payment, int rate){
5
6         int interestAmount=payment*rate/100;
7         return interestAmount;
8     }
9 }
```

```
ShapeMain.java x PatternMain.java x new 2.java x Main2.java x example.java x BMI.java x SimpleCalculator.java x TaxCalculation.java x
1 package taxCalc;
2 import calculator.*;
3
4 public class TaxCalculation{
5     public static void main(String args[]){
6
7         calculator.SimpleCalculator interestAmount=new calculator.SimpleCalculator();
8         int finalOutput=interestAmount.interestCalculation(20000,8);
9         System.out.println("Interest rate to be paid " + finalOutput);
10    }
11 }
```

```
Command Prompt
Microsoft Windows [Version 10.0.17134.1246]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Hansika>cd Desktop

C:\Users\Hansika\Desktop>javac -d . SimpleCalculator.java

C:\Users\Hansika\Desktop>javac -d . TaxCalculation.java
javac: file not found: TaxCalculation.java
Usage: javac <options> <source files>
use -help for a list of possible options

C:\Users\Hansika\Desktop>javac -d . TaxCalculation.java

C:\Users\Hansika\Desktop>java taxCalc.TaxCalculation
Interest rate to be paid 1600
```

## Question B

```
ShapeMain.java | PatternMain.java | new2.java | Main2.java | example.java | BMI.java | SimpleCalculator.java | TaxCalculation.java | SimpleArithmeticCalculator.java | Calculation.java
1
2
3 package arithmeticCalculator;
4
5 public class SimpleArithmeticCalculator{
6
7     public void add(int num1, int num2){
8
9         int answer=num1+num2;
10        System.out.println("Addition = " +answer);
11    }
12
13    public void subtract(int num1, int num2){
14
15        int answer=num1-num2;
16        System.out.println("Subtract= " +answer);
17    }
18
19    public void division(int num1, int num2){
20
21
22        int answer=num1/num2;
23        System.out.println("Division = " +answer);
24    }
25
26
27    public void multiplication(int num1, int num2){
28
29        int answer=num1*num2;
30        System.out.println("Multiplication = " +answer);
31    }
32
33 }
```

```
ShapeMain.java | PatternMain.java | new2.java | Main2.java | example.java | BMI.java | SimpleCalculator.java | TaxCalculation.java | SimpleArithmeticCalculator.java | Calculation.java
1
2
3 package calc;
4 import arithmeticCalculator.*;
5 import java.util.Scanner;
6
7 public class Calculation{
8     public static void main(String args[]){
9         Scanner scan=new Scanner(System.in);
10
11
12
13         System.out.print("Enter first number: ");
14         int num1 = scan.nextInt();
15
16         System.out.print("Enter second number: ");
17         int num2 = scan.nextInt();
18         arithmeticCalculator.SimpleArithmeticCalculator vall=new arithmeticCalculator.SimpleArithmeticCalculator();
19
20
21         vall.add(num1,num2);
22         vall.subtract(num1,num2);
23         vall.division(num1,num2);
24         vall.multiplication(num1,num2);
25
26     }
27
28 }
```

```
Command Prompt
Microsoft Windows [Version 10.0.17134.1246]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Hansika>cd Desktop

C:\Users\Hansika\Desktop>javac -d . SimpleArithmeticCalculator.java

C:\Users\Hansika\Desktop>javac -d . Calculation.java

C:\Users\Hansika\Desktop>java calc.Calculation
Enter first number: 12
Enter second number: 6
Addition = 18
Subtract= 6
Division = 2
Multiplication = 72

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

### Folder path for question A and B

```
Command Prompt
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Hansika>cd/desktop/18020275
The system cannot find the path specified.

C:\Users\Hansika>cd desktop/18020275

C:\Users\Hansika\Desktop\18020275>tree /a /f
Folder PATH listing
Volume serial number is C610-9FA6
C:.
|   Calculation.java
|   SimpleArithmeticCalculator.java
|   SimpleCalculator.java
|   TaxCalculation.java
|
+---arithmeticCalculator
|       SimpleArithmeticCalculator.class
|
+---calc
|       Calculation.class
|
+---calculator
|       SimpleCalculator.class
|
\---taxCalc
|       TaxCalculation.class

C:\Users\Hansika\Desktop\18020275>
```