LetsUpgrade Java Essentials Assignment - 2
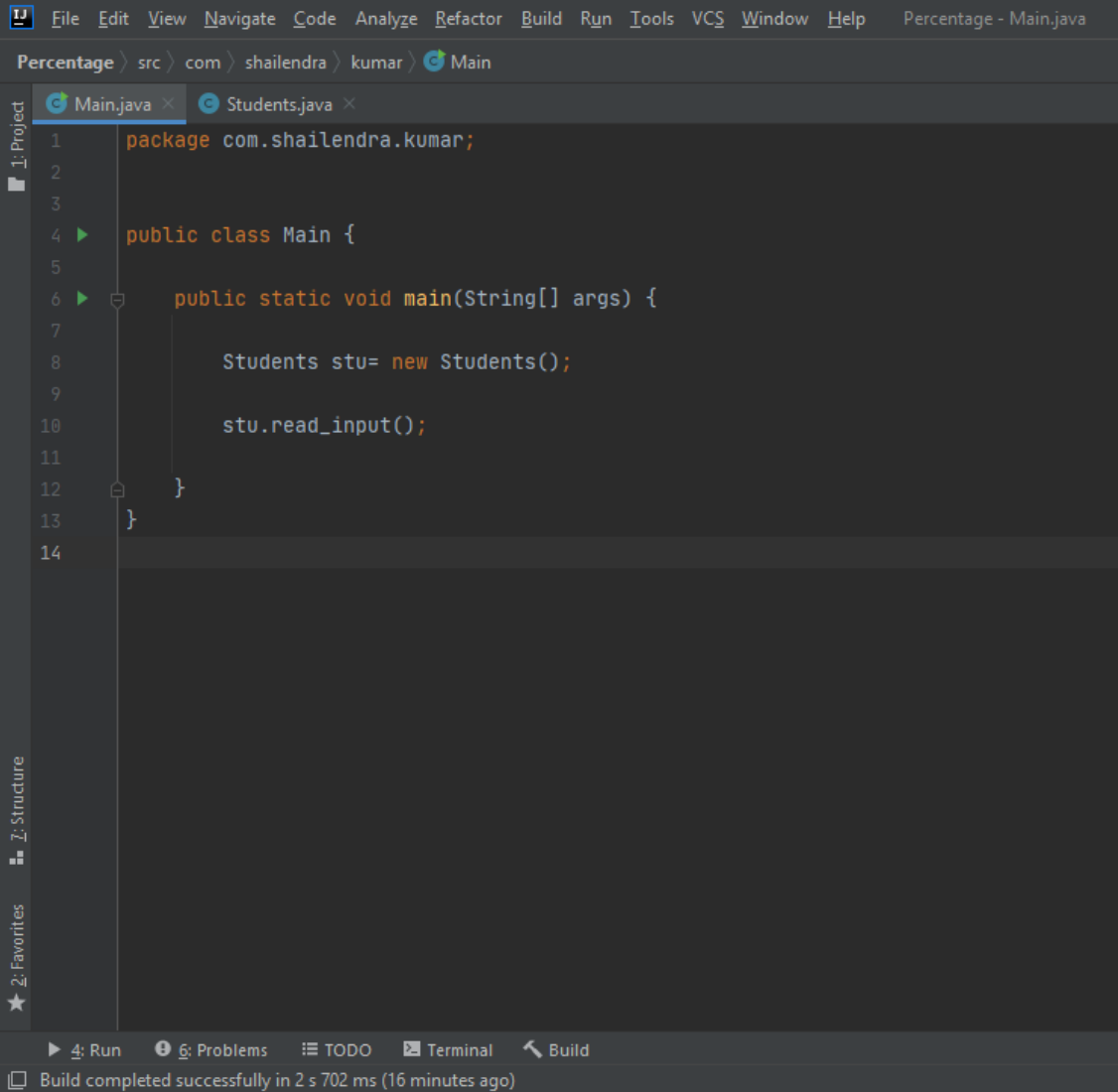
Questions 1:

Take 5 subjects marks each subject 100 marks;

Calculate the percentage;

Based on the percentage print the grade and the percentage;

Answer:

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help   Percentage - Main.java

Percentage > src > com > shailendra > kumar > C Main

C Main.java ×   C Students.java ×

```java
package com.shailendra.kumar;


public class Main {

    public static void main(String[] args) {

        Students stu= new Students();

        stu.read_input();

    }
}
```

4: Run   6: Problems   TODO   Terminal   Build
Build completed successfully in 2 s 702 ms (16 minutes ago)

Main.java ×   © Students.java ×

```java
package com.shailendra.kumar;

import java.util.Scanner;


public class Students {



    int java,php,python,c,ruby;

    public void read_input(){



        Scanner sc = new Scanner(System.in);

        System.out.println("Enter your java marks");
        java= sc.nextInt();

        System.out.println("Enter your php marks");
        php= sc.nextInt();

        System.out.println("Enter your python marks");
        python= sc.nextInt();

        System.out.println("Enter your c marks");
        c= sc.nextInt();

        System.out.println("Enter your ruby marks");
```

▶ 4: Run   ❶ 6: Problems   ≔ TODO   ⊠ Terminal   ⚒ Build

Build completed successfully in 2 s 702 ms (16 minutes ago)

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Percentage src com shailendra kumar Students

Main.java ×   Students.java ×

```java
10          int java,php,python,c,ruby;
11
12          public void read_input(){
13
14
15              Scanner sc = new Scanner(System.in);
16
17              System.out.println("Enter your java marks");
18              java= sc.nextInt();
19
20              System.out.println("Enter your php marks");
21              php= sc.nextInt();
22
23              System.out.println("Enter your python marks");
24              python= sc.nextInt();
25
26              System.out.println("Enter your c marks");
27              c= sc.nextInt();
28
29              System.out.println("Enter your ruby marks");
30              ruby= sc.nextInt();
31
32              float total_marks=500;
33              float sub_marks= java+php+python+c+ruby;
34
35              float percentage = (sub_marks/total_marks)*100;
36
37              System.out.println("Your Percentage is = "+percentage+"%");
```

▶ 4: Run   ❶ 6: Problems   ☰ TODO   ⯈ Terminal   ⚒ Build

Build completed successfully in 2 s 702 ms (17 minutes ago)

ⓖ Main.java ×   ⓒ Students.java ×

```java
        ruby= sc.nextint();

        float total_marks=500;
        float sub_marks= java+php+python+c+ruby;

        float percentage = (sub_marks/total_marks)*100;

        System.out.println("Your Percentage is = "+percentage+"%");

        if (percentage>=90){

            System.out.println("Your grade is A");
        }
        else if (percentage>=75 && percentage<90){

            System.out.println("Your grade is B");
        }
        else if (percentage>=60 && percentage<75){

            System.out.println("Your grade is C");
        }
        else if (percentage<60){

            System.out.println("Your grade is D");
        }
    }
}
```

▶ 4: Run   ❶ 6: Problems   ≡ TODO   ⊒ Terminal   ⚒ Build

⟁ Build completed successfully in 2 s 702 ms (18 minutes ago)

Main.java   Students.java

```java
        float percentage = (sub_marks/total_marks)*100;

        System.out.println("Your Percentage is = "+percentage+"%");

        if (percentage>=90){

            System.out.println("Your grade is A");
        }
        else if (percentage>=75 && percentage<90){
```

Run: Main

```
D:\Java\jdk-11.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2020.
Enter your java marks
75
Enter your php marks
79
Enter your python marks
73
Enter your c marks
71
Enter your ruby marks
89
Your Percentage is = 77.4%
Your grade is B

Process finished with exit code 0
```

▶ 4: Run   ⊕ 6: Problems   ≡ TODO   ⊠ Terminal   ⚒ Build

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Questions 2:

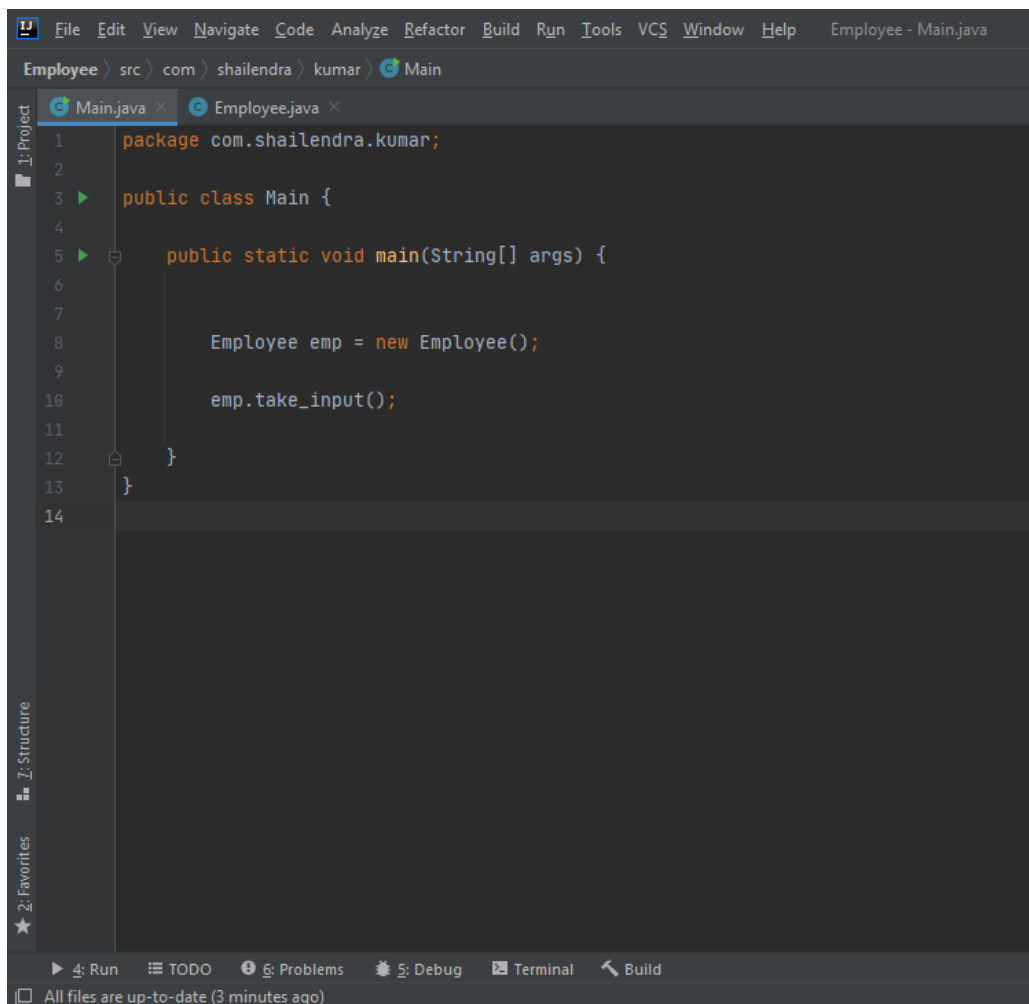Take employee name, date of birth, month of birth, year of birth, monthly salary;

5l - 20%;

4l - 15%;

3l- 10%;

2l -5%;

Display name, age, annual salary and the tax amount

Answer:

```java
package com.shailendra.kumar;

public class Main {

    public static void main(String[] args) {


        Employee emp = new Employee();

        emp.take_input();

    }
}
```

```java
package com.shailendra.kumar;

import java.util.Scanner;

public class Employee {

    String emp_name;
    int emp_bdate, emp_bmonth, emp_byear;
    double emp_salary, tax;

    public void take_input(){

        Scanner sc= new Scanner(System.in);

        System.out.println("Enter your name");
        emp_name=sc.next();

        System.out.println("Enter your date of birth");
        emp_bdate=sc.nextInt();

        System.out.println("Enter your month of birth");
        emp_bmonth=sc.nextInt();

        System.out.println("Enter your year of birth");
        emp_byear=sc.nextInt();

        System.out.println("Enter your monthly salary");
        emp_salary=sc.nextDouble();
```

Main.java ×   Ⓔ Employee.java ×

```java
27        System.out.println("Enter your monthly salary");
28        emp_salary=sc.nextDouble();
29
30            int day= 12-emp_bdate;
31            int month= 10-emp_bmonth;
32            int year= 2020-emp_byear;
33
34            double salary=emp_salary*12;
35
36
37            if (salary < 200000) {
38                tax = 0;
39            }
40
41            else if (salary >= 200000 && salary < 300000) {
42                tax = (salary- 200000)/5+10000;
43            }
44
45            else if (salary >= 300000 && salary <400000) {
46                tax = (salary - 300000)/10+30000;
47            }
48
49            else if (salary >= 400000 && salary <500000) {
50                tax = (salary - 400000)/15+60000;
51            }
52
53            else {
54                tax = (salary - 500000)/20+100000;
55            }
```

▶ 4: Run   ☰ TODO   ❶ 6: Problems   🐞 5: Debug   ⏭ Terminal   ⚒ Build

Build completed successfully in 3 s 111 ms (4 minutes ago)

ⓒ Main.java ×   ⓒ Employee.java ×

```java
        if (salary < 200000) {
            tax = 0;
        }

        else if (salary >= 200000 && salary < 300000) {
            tax = (salary- 200000)/5+10000;
        }

        else if (salary >= 300000 && salary <400000) {
            tax = (salary - 300000)/10+30000;
        }

        else if (salary >= 400000 && salary <500000) {
            tax = (salary - 400000)/15+60000;
        }

        else {
            tax = (salary - 500000)/20+100000;
        }

        System.out.println("Your name is "+emp_name);
        System.out.println("Your age is "+year+","+month+"month and "+day+"day");
        System.out.println("Your annual salary is ="+salary);
        System.out.println("The tax amount is ="+tax);

    }
}
```

Main.java ×   Employee.java ×

```java
36
37        if (salary < 200000) {
38            tax = 0;
39        }
```

Run: Main ×

```
D:\Java\jdk-11.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2020.
Enter your name
dhoni
Enter your date of birth
07
Enter your month of birth
07
Enter your year of birth
1981
Enter your monthly salary
26000
Your name is dhoni
Your age is 39,3month and 5day
Your annual salary is =312000.0
The tax amount is =31200.0

Process finished with exit code 0
```

▶ 4: Run   ☰ TODO   ❶ 6: Problems   ✱ 5: Debug   ⊡ Terminal   ⚒ Build

Build completed successfully in 2 s 908 ms (a minute ago)

By Shailendra Kumar

Part of LetsUpgrade Family