



NUML

National University of Modern Languages

OOP

*BS-Software Engineering 2<sup>nd</sup>-E*

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Roll# SP-21-110

NUML-S21-23529

Title: Assignment 1

Submitted to  
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# National University of Modern Languages

## Object Oriented Programming

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### Assignment 1 (27-9-2021)

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1. Write a program that contains variables to hold employee data like; employee Code, employee Name and date of Joining. Write a function that assigns the user defined values to these variables. Write another function that asks the user to enter current date and then checks if the employee tenure is more than three years or not. Call the functions in main. Now write a runner class that declares two employee objects and check their tenure periods.

```
// Author:-Hamza Mehmood SP-21-110  
  
/* Program Title:-Write a program that contains variables to  
hold employee data like; employee Code,employee Name and date  
Of Joining.
```

ASSIGNMENT 1

Write a function that assigns the user defined values to these variables. Write another function that asks the user to enter current date and then checks if the employee tenure is more than three years or not. Call the functions in main.

Now write a runner class that declares two employee objects and check their tenure periods.\*/

```
import java.util.Scanner;
```

```
class getdata {  
    int code;  
    String name;  
    int date;  
    int month;  
    int year;  
    int c_date;  
    int c_month;  
    int c_year;  
    int tenure_y;
```

ASSIGNMENT 1

```
void setdata() {  
  
    System.out.println("Employee Code: " + code);  
    System.out.println("Employee name: " + name);  
    System.out.println("Date of Joining: " + date + "-" +  
month + "-" + year);  
}  
  
void current_date() {  
  
    System.out.println("Current Date is: " + c_date + "-"  
+ c_month + "-" + c_year);  
  
}  
  
void tenure_period() {  
    int tenure_y = c_year - year;
```

ASSIGNMENT 1

```
        if (tenure_y == 1 && c_month == month && c_date ==  
date) {  
  
            System.out.println("Tenure Period of Employee is  
" + tenure_y + " year which isn't more then 3 years ");  
        } else if (tenure_y == 2 && c_month == month && c_date  
== date) {  
  
            System.out  
  
                .println("Tenure Period of Employee is "  
+ tenure_y + " years which isn't more then 3 years ");  
  
        } else if (tenure_y >= 3 && c_month == month && c_date  
== date) {  
  
            System.out.println("Tenure Period of Employee is  
" + tenure_y + " years which is equal to 3 years ");  
        } else if (tenure_y < 3 && c_month == month) {  
  
            System.out.println("Tenure Period of Employee is  
not more then 3 years");  
        }  
    }  
}
```

```
    } else if (tenure_y > 3) {  
  
        System.out.println("Tenure Period of Employee is  
more than 3 years");  
  
        } else if (((tenure_y == 1 || tenure_y == 2 || tenure_y  
== 3) && (date<c_date || month<c_month))|| (date>c_date ||  
month>c_month) ) {  
  
            System.out.println("Tenure Period of Employee is  
less than 3 years");  
  
        }  
  
    }  
  
}  
  
public class HamzaMehmood_Assignment_1 {  
  
    public static void main(String[] args) {
```

ASSIGNMENT 1

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

getdata employee1 = new getdata();
getdata employee2 = new getdata();

System.out.println(" ");

System.out.println("Enter Code for Employee One:");
employee1.code = sc.nextInt();

System.out.println("Enter Name of Employee One:");
employee1.name = sc.next();

System.out.println("Enter Date of Joining of Employee
One in " + "DD/MM/YY Format:");

employee1.date = sc.nextInt();
employee1.month = sc.nextInt();
employee1.year = sc.nextInt();

System.out.println("Enter Current Date in DD/MM/YY
Format for employee One");
```

ASSIGNMENT 1

```
employee1.c_date = sc.nextInt();  
employee1.c_month = sc.nextInt();  
employee1.c_year = sc.nextInt();  
System.out.println("");  
  
System.out.println("Enter Code for Employee Two:");  
employee2.code = sc.nextInt();  
  
System.out.println("Enter Name of Employee Two: ");  
employee2.name = sc.next();  
  
System.out.println("Enter Date of Joining of Employee  
Two in " + "DD/MM/YY Format:");  
employee2.date = sc.nextInt();  
employee2.month = sc.nextInt();  
employee2.year = sc.nextInt();  
  
System.out.println("Enter Current Date in DD/MM/YY  
Format for employee Two");
```



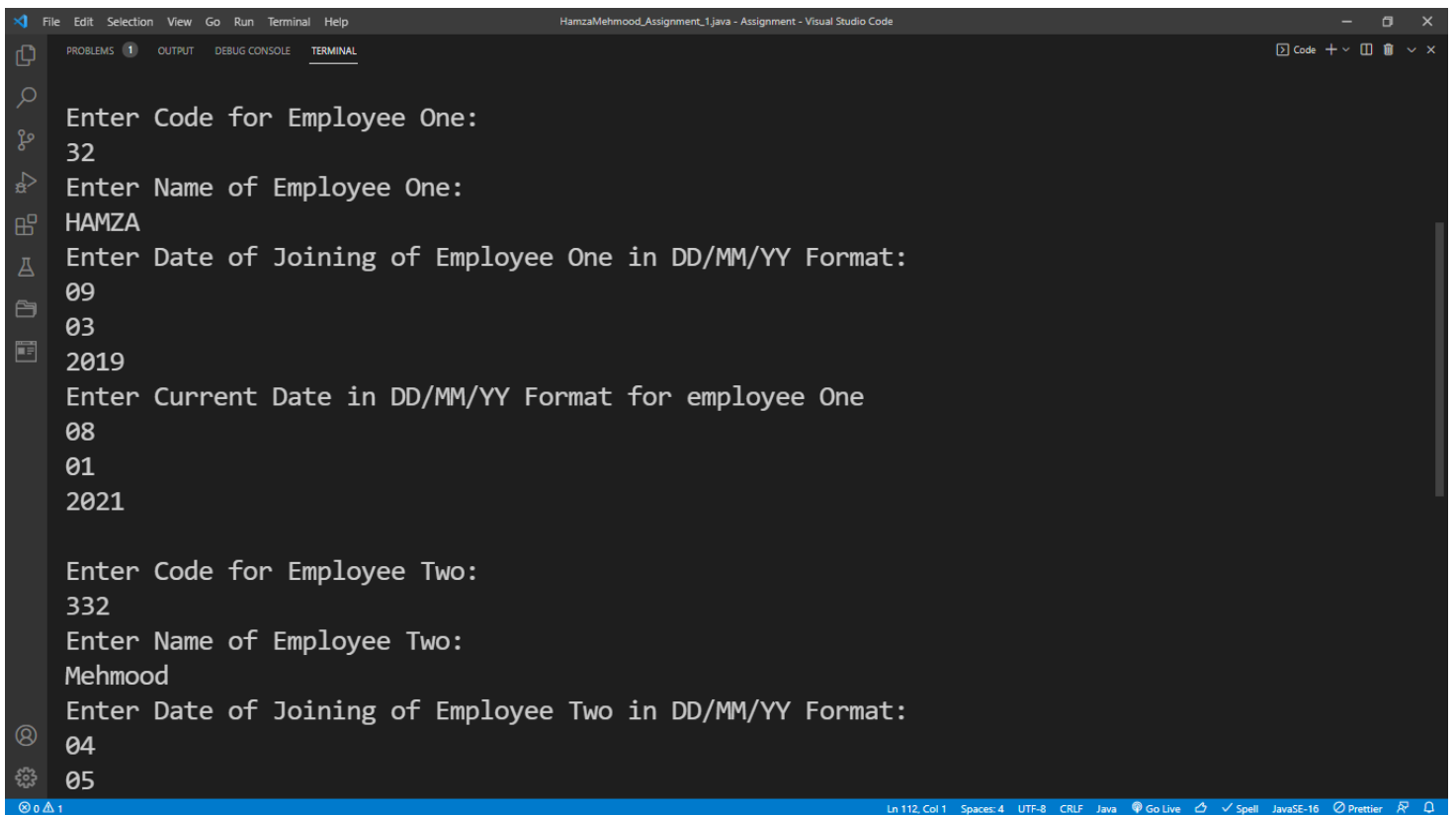
ASSIGNMENT 1

```
employee2.c_date = sc.nextInt();  
employee2.c_month = sc.nextInt();  
employee2.c_year = sc.nextInt();  
System.out.println("");  
  
System.out.println("Data of Employee One:");  
employee1.setdata();  
employee1.current_date();  
employee1.tenure_period();  
  
System.out.println(" ");  
System.out.println("Data of Employee Two:");  
employee2.setdata();  
employee2.current_date();  
employee2.tenure_period();  
System.out.println(" ");  
  
}
```

ASSIGNMENT 1

```
}
```

# OUTPUT



```
File Edit Selection View Go Run Terminal Help
HamzaMehmood_Assignment_1.java - Assignment - Visual Studio Code

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL
Enter Code for Employee One:
32
Enter Name of Employee One:
HAMZA
Enter Date of Joining of Employee One in DD/MM/YY Format:
09
03
2019
Enter Current Date in DD/MM/YY Format for employee One
08
01
2021

Enter Code for Employee Two:
332
Enter Name of Employee Two:
Mehmood
Enter Date of Joining of Employee Two in DD/MM/YY Format:
04
05

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```

ASSIGNMENT 1

```
File Edit Selection View Go Run Terminal Help
HamzaMehmood_Assignment_1.java - Assignment - Visual Studio Code

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

Enter Code for Employee Two:
332
Enter Name of Employee Two:
Mehmood
Enter Date of Joining of Employee Two in DD/MM/YY Format:
04
05
2014
Enter Current Date in DD/MM/YY Format for employee Two
Current Date is: 8-1-2021
Tenure Period of Employee is less then 3 years

Data of Employee Two:
Employee Code: 332
Employee name: Mehmood
Date of Joining: 4-5-2014
Current Date is: 16-10-2021
Tenure Period of Employee is more then 3 years

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```

