**Experiment Title 1.1**

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**Subject Name: Project Based Learning using Java**

**Subject Code: 20CSP-321**

**1. Aim/Overview of the practical:**

Given the following table containing information about employees of an organization, develop a small java application, which accepts employee id from the command prompt and displays the following details as output:

**Emp No Emp Name Department Designation and Salary**

You may assume that the array is initialized with the following details:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Emp No.** | **Emp**  **Name** | **Join Date** | **Desig**  **Code** | **Dept** | **Basic** | **HRA** | **IT** |
| 1001 | Ashish | 01/04/2009 | e | R&D | 20000 | 8000 | 3000 |
| 1002 | Sushma | 23/08/2012 | c | PM | 30000 | 12000 | 9000 |
| 1003 | Rahul | 12/11/2008 | k | Acct | 10000 | 8000 | 1000 |
| 1004 | Chahat | 29/01/2013 | r | Front  Desk | 12000 | 6000 | 2000 |
| 1005 | Ranjan | 16/07/2005 | m | Engg | 50000 | 20000 | 20000 |
| 1006 | Suman | 1/1/2000 | e | Manu factur ing | 23000 | 9000 | 4400 |
| 1007 | Tanmay | 12/06/2006 | c | PM | 29000 | 12000 | 10000 |

Salary is calculated as Basic+HRA+DA-IT. (DA details are given in the Designation table) Designation details :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Designation Code** | | **Designation** | | **DA** | |
| e | | Engineer | | 20000 | |
| c | | Consultant | | 32000 | |
| k | | Clerk | | 12000 | |
| r | | Receptionist | | 15000 | |
| m | | Manager | | 40000 | |

Use **Switch-Case** to print Designation in the output and to find the value of DA for a particular employee.

O/P Expected:

1. Assuming that your class name is Project1, and you execute your code as **java Project1 1003**, it should display the following output :

**Emp No. Emp Name Department Designation Salary**

**1003 Rahul Acct Clerk 29000**

2. java Project1 123

**There is no employee with empid : 123**

**2. Software/Hardware Requirements:**

# Windows

# BlueJ (Java IDE)

# JRE (Java Runtime Environment)

**3. Steps for experiment/practical/Code:**

import java.util.Scanner;

public class FirstExperiment {

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in); System.out.println("Please Enter Eid: "); int eid=sc.nextInt();

// System.out.println(a);

String empname[]={"Ashish","Sushma","Rahul","Chahat","Ranjan","Suman"};

String joindate[]={"01/04/2009","23/08/2012","12/11/2008","29/01/2013","16/07/2005","1/1/2 000"};

char desigcode[]={'e','c','k','f','m','e'};

String dept[]={"R&D","PM","ACC","FRONTDESK","ENGG","MANUFACTURER"};

int basic[]={20000,30000,10000,12000,50000,23000};

int hra[]={8000,12000,8000,6000,2000,9000};

int it[]={3000,9000,1000,2000,20000,4400};

String[] desig=new String[6];

int[] da=new int[6];

for (int i=0;i<6;i++){

if(desigcode[i]=='e'){ da[i]=20000;

desig[i]="Engineer";

}else if(desigcode[i]=='c'){ da[i]=32000;

desig[i]="Consultant";

}else if(desigcode[i]=='k'){ da[i]=12000;

desig[i]="Clerk";

}else if(desigcode[i]=='r'){ da[i]=15000;

desig[i]="Receptionist";

}

else if(desigcode[i]=='m'){ da[i]=40000;

desig[i]="Manager";

}

}

int i=eid-1001;

int[] salary=new int[6]; for (i=0;i<6;i++){

salary[i]=basic[i]+hra[i]+da[i]-it[i];

}

// System.out.println(""+empname[i]+" "+joindate[i]+" "+desigcode[i]+" "+dept[i]+" "+basic[i]+" "+hra[i]+" "+it[i]);

System.out.println("empno empname department designation salary");

switch(eid)

{

case 1001:

System.out.println(eid+" "+empname[0]+" "+dept[0]+" "+desig[0]+" "+salary[0]);

break; case 1002:

System.out.println(eid+" "+empname[1]+" "+dept[1]+" "+desig[1]+" "+salary[1]);

break; case 1003:

System.out.println(eid+" "+empname[2]+" "+dept[2]+" "+desig[2]+" "+salary[2]);

break; case 1004:

System.out.println(eid+" "+empname[3]+" "+dept[3]+" "+desig[3]+" "+salary[3]);

break; case 1005:

System.out.println(eid+" "+empname[4]+" "+dept[4]+" "+desig[4]+" "+salary[4]);

break; case 1006:

System.out.println(eid+" "+empname[5]+" "+dept[5]+" "+desig[5]+" "+salary[5]);

break;

default:

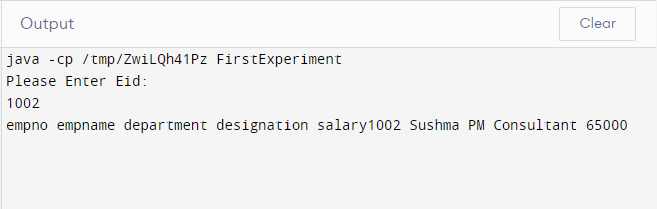
System.out.println("No Employee with this eid exists");

}

}

}

**4. Result/Output/Writing Summary:**



**Learning outcomes (What I have learnt):**

**1. Java Classes**

**2. Java Switch Case Statements**

**3. Arrays**

**4. Java If-Else Statements**