



**DEPARTMENT OF**

**COMPUTER SCIENCE & ENGINEERING**

### Experiment 1

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**Branch: CSE**

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**Subject Name: Project Based Java Lab**

**UID: 22BCS13460**

**Section/Group: 22BCS\_DL-902/A**

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1. **Aim:** 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.

## 2. Objective:

i. 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 ii.

java Project1 123

There is no employee with empid : 123

## 3. Implementation/Code: import java.util.Scanner;



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```
public class Project1 {    public static void
main(String[] args) {    Scanner sc = new
Scanner(System.in);

    String[] empNo = {"1001", "1002", "1003", "1004", "1005", "1006",
"1007"};
    String[] empName = {"Ashish", "Sushma", "Rahul", "Chahat",
"Ranjan", "Suman", "Tanmay"};
    String[] joinDate = {"01/04/2009", "23/08/2012", "12/11/2008",
"29/01/2013", "16/07/2005", "01/01/2000", "12/06/2006"};
    String[] desigCode = {"e", "c", "k", "r", "m", "e", "c"};
    String[] dept = {"R&D", "PM", "Acct", "Front Desk", "Engg",
"Manufacturing", "PM"};    int[] basic = {20000, 30000, 10000,
12000, 50000, 23000, 29000};    int[] hra = {8000, 12000, 8000, 6000,
20000, 9000, 12000};    int[] it = {3000, 9000, 1000, 2000, 20000,
4400, 10000};

    System.out.print("Enter Employee ID: ");
    Int EmpId = sc.nextInt();

    int index = -1;    for (int i = 0; i <
empNo.length; i++) {    if
(empNo[i].equals(inputEmpId))    {
index = i;    break;
    }
    }

    if (index == -1) {
        System.out.println("There is no employee with empid: " +
inputEmpId);
    } else {
        int da;
```

```
        String      designation;
switch      (desigCode[index])    {
case "e":
        designation = "Engineer";
        da = 20000;
break;      case "c":
        designation      =
        "Consultant";
        da = 32000;
break;      case "k":
        designation = "Clerk";
        da = 12000;      break;
case "r":
        designation = "Receptionist";
        da = 15000;
break;      case "m":
        designation = "Manager";
        da = 40000;
break;      default:
        designation  =  "Unknown";
        da = 0;
    }

    int salary = basic[index] + hra[index] + da - it[index];

    System.out.println("Emp No   Emp Name   Department
Designation   Salary");
    System.out.println(empNo[index] + "   " + empName[index] + "   "
+
        dept[index] + "   " + designation + "   " + salary);
}

sc.close();
```

```
}  
}
```

#### 4. Output:

```
Enter Employee ID:  
1007  
Emp No    Emp Name    Department    Designation    Salary  
1007      Tanmay        PM            Consultant     63000  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

```
Enter Employee ID:  
1010  
There is no employee with empid: 1010  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

#### 5. Learning Outcomes:

- i. Understand how to map employee details (like designation codes to roles) using efficient logic and structures.
- ii. Learn to identify and address input mismatches or invalid entries through proper validation and error messages.
- iii. Gain skills in presenting data in a well-structured and readable format for better user understanding.