

### **Experiment 1**

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**Subject Name: Project Based Learning Subject Code: 22CSH-359** 

in Java with Lab

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	е	R&D	20000	8000	3000
1002	Sushma	23/08/2012	С	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	е	Manu factur ing	23000	9000	4400
1007	Tanmay	12/06/2006	С	PM	29000	12000	10000

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

Designation details:

<b>Designation Code</b>	Designation	DA
е	Engineer	20000
С	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

Rahul Rahul

Acct

Clerk

29000

ii. java Project 1123

There is no employee with empid: 123

## 3. Implementation/Code:

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```
};
int index = -1;
for (int i = 0; i < \text{employees.length}; i++) {
  if (Integer.parseInt(employees[i][0]) == empId) {
     index = i;
     break;
}
if (index == -1) {
  System.out.println("There is no employee with empid: " + empId);
  return;
}
String designation = "";
int da = 0;
char desigCode = employees[index][3].charAt(0);
switch (desigCode) {
  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:
     System.out.println("Invalid designation code.");
     return;
}
int basic = Integer.parseInt(employees[index][5]);
int hra = Integer.parseInt(employees[index][6]);
int it = Integer.parseInt(employees[index][7]);
int salary = basic + hra + da - it;
```

System.out.println("Emp No. Emp Name Department Designation Salary");

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```
System.out.println(employees[index][0] + " " + employees[index][1] + " " + employees[index][4] + " " + designation + " " + salary);

scanner.close();
}
}
```

#### 4. Output:

```
Please enter an employee ID:
1003
Emp No. Emp Name Department Designation Salary
1003 Rahul Acct Clerk 29000

Please enter an employee ID:
10010
There is no employee with empid: 10010
```

### 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.