

#### **Experiment 1**

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

in Java with Lab

1. <u>Aim:</u> Given the following table containing information about employees of an organization, develop a small Java application, that 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	Join Date	Desig	Dept	Basic	HRA	IT
Name		Code				
Ashish	01/04/2009	е	R&D	20000	8000	3000
Sushma	23/08/2012	С	PM	30000	12000	9000
Rahul	12/11/2008	k	Acct	10000	8000	1000
Chahat	29/01/2013	r	Front	12000	6000	2000
			Desk			
Ranjan	16/07/2005	m	Engg	50000	20000	20000
Suman	1/1/2000	е	Manu	23000	9000	4400
			factur			
			ing			
Tanmay	12/06/2006	С	PM	29000	12000	10000
	Name Ashish Sushma Rahul Chahat Ranjan Suman	Name       Name         Ashish       01/04/2009         Sushma       23/08/2012         Rahul       12/11/2008         Chahat       29/01/2013         Ranjan       16/07/2005         Suman       1/1/2000	Name         Code           Ashish         01/04/2009         e           Sushma         23/08/2012         c           Rahul         12/11/2008         k           Chahat         29/01/2013         r           Ranjan         16/07/2005         m           Suman         1/1/2000         e	Name         Code           Ashish         01/04/2009         e         R&D           Sushma         23/08/2012         c         PM           Rahul         12/11/2008         k         Acct           Chahat         29/01/2013         r         Front Desk           Ranjan         16/07/2005         m         Engg           Suman         1/1/2000         e         Manu factur ing	Name         Code           Ashish         01/04/2009         e         R&D         20000           Sushma         23/08/2012         c         PM         30000           Rahul         12/11/2008         k         Acct         10000           Chahat         29/01/2013         r         Front Desk         12000           Ranjan         16/07/2005         m         Engg         50000           Suman         1/1/2000         e         Manu factur ing	Name         Code         R&D         20000         8000           Sushma         23/08/2012         c         PM         30000         12000           Rahul         12/11/2008         k         Acct         10000         8000           Chahat         29/01/2013         r         Front Desk         12000         6000           Ranjan         16/07/2005         m         Engg         50000         20000           Suman         1/1/2000         e         Manu factur ing         9000

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

1003 Rahul Acct Clerk 29000 ii. java Project 1123

There is no employee with empid: 123

# 3. Implementation/Code:

```
import java.util.Scanner;
public class Main {
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", "Ashwani", "Chahat",
                                       "Ranjan", "Suman", "Tanmay"};
String[] joinDate = \{"01/04/2009", "23/08/2012", "12/11/2008", "23/08/2012", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/2008", "12/11/
                         "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: ");
String inputEmpId = sc.next();
int index = -1;
for (int i = 0; i < \text{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:







## 5. **Learning Outcomes:**

- Learn how to match codes (like "e" or "c") with roles like Engineer or Consultant.
- Understand how to check for wrong inputs and show helpful error messages.
- Practice showing employee details in a neat and clear format.
- Learn how to search in a list of employees using their ID.
- Understand how to calculate salaries by adding and subtracting different amounts.