



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Experiment 1

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Semester: 6

Date of Performance: 09/01/2025

Subject Name: Project Based Learning in Java with Lab

Subject Code: 22CSH-359

- 1. Aim:** Create an application to save the employee information using arrays.
- 2. Objective:** Given the table containing information about employees of an organization, develop a small java application, which accepts employee id and displays the Emp, No Emp, Name, Department, Designation and Salary.

3. Implementation/Code:

```
import java.util.Scanner;
public class Project1 {
    public static void main(String[] args)
    { Scanner input = new Scanner(System.in);
      System.out.println("Enter Employee ID ");
      String impid = input.nextLine();
      String[][] employees = {
          {"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", "Manufacturing", "23000", "9000",
            "4400"},
          {"1007", "Tanmay", "12/06/2006", "c", "PM", "29000", "12000", "10000"} };
      boolean flag = false;
      String[] empfound = null;
      for(int i = 0; i < employees.length;
        i++){ if(employees[i][0].equals(impid)){
          flag = true;
```



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```
        empfound = employees[i];
        break;
    }
}
if (flag == false){
    System.out.println("Employee with Employee ID " + impid + " not found.");
}
String empno = empfound[0];
String empname = empfound[1];
String descodes = empfound[3];
String dept = empfound[4];
String basic = empfound[5];
int basici = Integer.parseInt(basic);
String hra = empfound[6];
int hraci = Integer.parseInt(hra);
String it = empfound[7];
int iti = Integer.parseInt(it);
int da = 0;
String desig = null;
switch(descodes) {
    case "e":
        desig = "Engineer";
        da = 20000;
        break;
    case "c":
        desig = "Consultant";
        da = 32000;
        break;
    case "k":
        desig = "Clerk";
        da = 12000;
        break;
    case "r":
        desig = "Receptionist";
        da = 15000;
        break;
    case "m":
        desig = "Manager";
```

```
        da = 40000;
        break;
    }
    int salary = basici + hrai + da - iti;
    System.out.println("Employee Name: " + empname + "\nDepartment: " + dept +
"\nDesignation: " + desig);
    System.out.println("Basic Salary: " + basic + "\nDA: " + da + "\nHRA: " + hra +
"\nIT: " + it);
    System.out.println("Salary: " + salary);
}
}
```

4. Output

```
PS D:\22bcs13216\6\java> java Project1.java
Enter Employee ID
1003
Employee Name: Rahul
Department: Acct
Designation: Clerk
Basic Salary: 10000
DA: 12000
HRA: 8000
IT: 1000
Salary: 29000
PS D:\22bcs13216\6\java> java Project1.java
Enter Employee ID
1009
Employee with Employee ID 1009 not found.
```

5. Learning Outcome:

- Taking user input using Scanner
- Usage of multidimensional arrayss
- String operations and type casting