

“Experiment 1.1”

Student Name: **SUMIT KUMAR**

Branch: **CSE**

Semester: **5**

Subject Name: **PBLJ Lab**

UID: **20BCS8226**

Section/Group: **808-A**

Date of Performance: **25-08-22**

Subject Code: **20CSP-321**

AIM:

Create an application to save the employee information using arrays.

Minimum Hardware Requirements:

- 2 GHz CPU or 1 virtual CPU in virtualized environments.
- 1 GB of RAM.
- 4 GB of storage.

Minimum Software Requirements:

Software	Version
<ul style="list-style-type: none">• OS	<ul style="list-style-type: none">• Mac OS 10.15, HP-UX 11i V3, AIX 7.2, Windows Server 2019, Windows 10, Solaris 11.3, Red Hat Enterprise Linux 8.1, Ubuntu Server 20.04
<ul style="list-style-type: none">• JDK	<ul style="list-style-type: none">• JDK 1.8.0, JDK 11, Eclipse IDE, Net, NetBeans 8.2, Notepad++

Source Code:

```

// SUMIT KUMAR
// UID: 20BCS8226

// Save: Employee.java

package sumit;

import java.util.*;
public class Employee {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int i,f=0,pos = -1,da=0,salary;
        char empDes;
        String em-
pid[]={ "1001","1002","1003","1004","1005","1006","1007"};
        String depName[]={ "R&D","PM","Acct","Front Desk","Engg","Manu-
facturing","PM"};
        String empName[]={ "Raaj","Sushma","Rahul","Ravi","Ranjan","Su-
mit","Saurav"};
        String
dateJoin[]={ "1/04/2009","23/08/2012","12/11/2008","29/01/2013","16/07/2005
","1/01/2000","12/06/2006"};
        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};
        String desg = null;
        char DesCodes[]={ 'e','c','k','r','m','e','c'};
        Scanner in = new Scanner(System.in);
        System.out.println("Enter empid: ");
        String s = in.next();
        for(i=0;i<(empid.length);i++)
        {
            if(args[0].equals(empid[i]))
            {
                pos=i;
                //f=1;
            }
        }
        if(pos==-1)
        {
            System.out.println("Emp id does not exist");
            return;
        }

        //System.out.println("Hello");
        empDes=DesCodes[pos];
        switch(empDes)
        {
            case 'e':
                desg="Engineer";
                da=20000;

```

```

        break;
    case 'c':
        desg="Consultants";
        da=32000;
        break;
    case 'k':
        desg="Clerk";
        da=12000;
        break;
    case 'r':
        desg="Receptionist";
        da=15000;
        break;
    case 'm':
        desg="Manager";
        da=40000;
        break;
    }
    salary=basic[pos]+hra[pos]+it[pos]+da;
    //System.out.println(salary);
    System.out.println("Emp no\t\tEmployee Name\t\tDeaprt-
ment\t\tDesignation\t\tSalary");
    System.out.println(empid[pos]+"\\t\\t\\t"+emp-
Name[pos]+"\\t\\t\\t"+depName[pos]+"\\t\\t\\t"+desg+"\\t\\t"+salary);
    }
}

```

Output:

```

PROBLEMS 6 OUTPUT DEBUG CONSOLE TERMINAL
PS E:\work\java> cd "e:\work\java\" ; if ($?) { javac Employee.java } ; if ($?) { java Employee }
Enter empid:
69
Emp id does not exist
PS E:\work\java> cd "e:\work\java\" ; if ($?) { javac Employee.java } ; if ($?) { java Employee }
Enter empid:
1004
Emp no      Employee Name      Deaprtment      Designation      Salary
1004      Ravi?,?Ranjan      Front Desk      Receptionist      35000
PS E:\work\java> 

```

Learning outcomes:

- Learnt about getter and setter method.
- Learnt about factory method.
- Learnt to make code more efficient and maintainable by using Code refactoring.
- Learnt how to implement object-oriented designs with Java.
- Learnt how to use exception handling in Java applications.