



Experiment 1

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Subject Name: PBLJ LAB

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1. **Aim:** Create an application to save the employee information using arrays.

2. **Objective:**

- i. To learn use of Scanner Class.
- ii. To learn about Array Data Structure.
- iii. To calculate the salary with respect to the formula (Basic + HRA + DA – IT).

3. **Theory:** Arrays are used to store multiple values in a single variable, instead of declaring separate variables for each value. To declare an array, define the variable type, specify the name of the array followed by square brackets and specify the number of elements it should store: `int a[4];`

4. **Problem Statement:** Design and implement a Employee Management System that allows users to manage employee records effectively.

5. **Implementation/Code:**

```
import java.util.*;
public class Exp1 {

    public static void main(String[] args) {
        int[] EmpNumber={1001,1002,1003,1004,1005,1006,1007};
        String[]
EmpName={"Ashish","Sushma","Rahul","Chahat","Ranjan","Suman","Tanmay
"};
        char[] 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};
```



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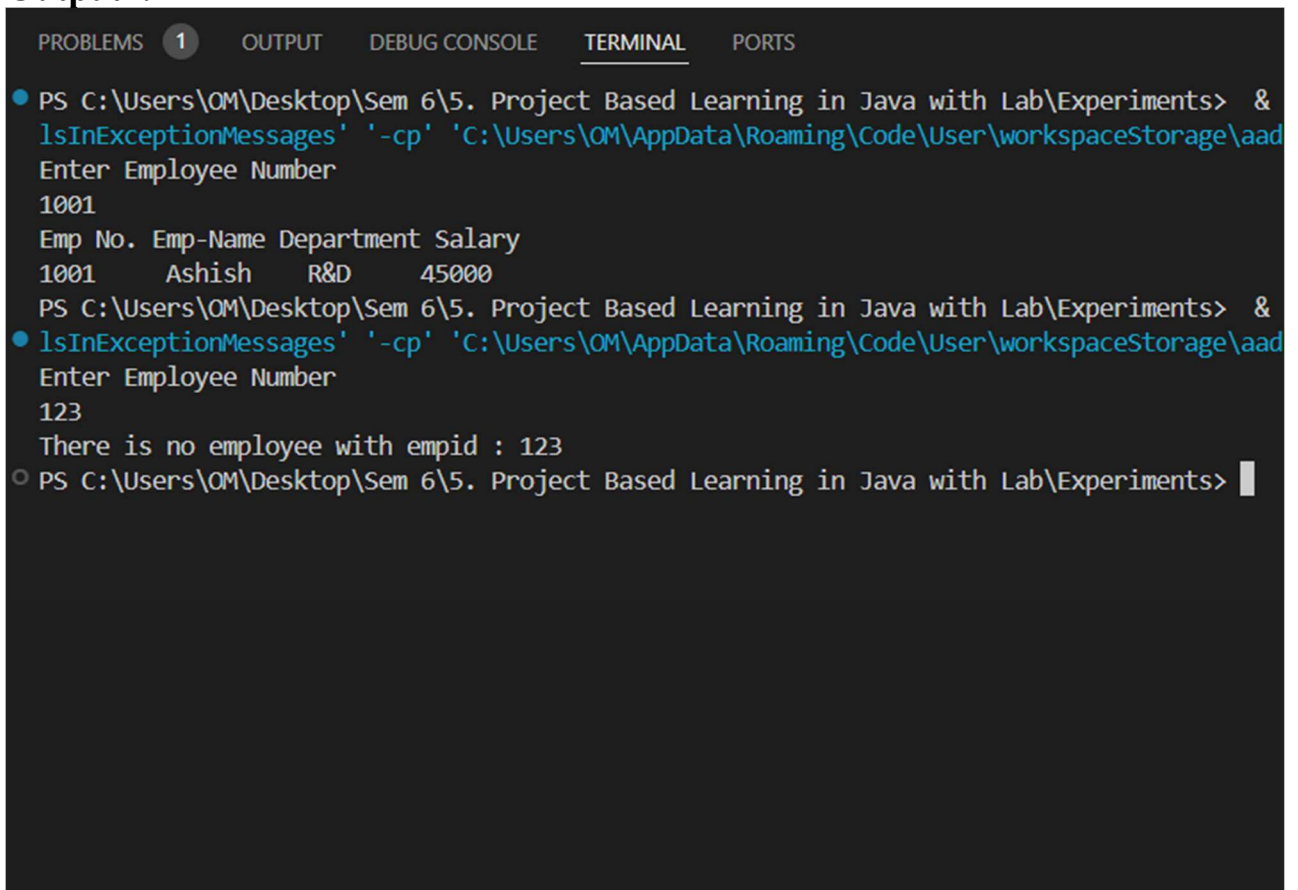
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```
int[] IT={3000,9000,1000,2000,20000,4400,10000};
int n=EmpNumber.length;
int[] DA=new int[n];
for(int i=0;i<n;i++){
    switch (DesigCode[i]) {
        case 'e':
            DA[i]=20000;
            break;
        case 'c':
            DA[i]=32000;
            break;
        case 'k':
            DA[i]=12000;
            break;
        case 'r':
            DA[i]=15000;
            break;
        case 'm':
            DA[i]=40000;
            break;
        default:
            break;
    }
}
int[] Salary=new int[n];
for(int i=0;i<n;i++){
    Salary[i]=Basic[i]+HRA[i]+DA[i]-IT[i];
}
Scanner sc = new Scanner(System.in);
System.out.println("Enter Employee Number");
int EmpNum=sc.nextInt();
int temp=-1;
for(int i=0;i<n;i++){
    if(EmpNumber[i]==EmpNum){
        temp=i;
        break;
    }
}
if(temp==-1){
    System.out.println("There is no employee with empid : "+ EmpNum);
}
else{
```

```
        System.out.println("Emp No. Emp-Name Department Salary");
        System.out.println(EmpNumber[temp]+"    "+EmpName[temp]+"
"+Dept[temp]+"    "+Salary[temp]);

    }
}
}
```

6. Output :



```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\OM\Desktop\Sem 6\5. Project Based Learning in Java with Lab\Experiments> &
lsInExceptionMessages' '-cp' 'C:\Users\OM\AppData\Roaming\Code\User\workspaceStorage\aad
Enter Employee Number
1001
Emp No. Emp-Name Department Salary
1001    Ashish    R&D    45000
PS C:\Users\OM\Desktop\Sem 6\5. Project Based Learning in Java with Lab\Experiments> &
lsInExceptionMessages' '-cp' 'C:\Users\OM\AppData\Roaming\Code\User\workspaceStorage\aad
Enter Employee Number
123
There is no employee with empid : 123
PS C:\Users\OM\Desktop\Sem 6\5. Project Based Learning in Java with Lab\Experiments> |
```

7. LEARNING OUTCOMES:

- Learned the implementation of Scanner class , by taking user input.
- Learned the use of Switch Cases.
- Learned the use of Array Data Structure.