Experiment - 1

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Semester: 5th **Date of Performance: 16/08/2022**
Subject Name: Machine Learning Lab **Subject Code: 20CSP-317**

1. Aim/Overview of the practical:
Create an application to save the employee information using arrays.

2. Task to be done/ Which logistics used:
Write the program to create an application to save the employee information using arrays.

3. Algorithm/Flowchart (For programming-based labs)**:**

4. Steps for experiment/practical/Code:

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;

public class Employee {
  String empId;
  String depName;
  String empDesignation;
  String empName;
  String dateJoin;
  int basic;
  int hra;
  int it;
  char designationCode;
  public static int da;

  public Employee(
    String empId,
    String depName,
```

```
  String empDesignation,
  String empName,
  String dateJoin,
  int basic,
  int hra,
  int it,
  char designationCode
) {
  this.empId = empId;
  this.depName = depName;
  this.empDesignation = empDesignation;
  this.empName = empName;
  this.dateJoin = dateJoin;
  this.basic = basic;
  this.hra = hra;
  this.it = it;
  this.designationCode = designationCode;
}

public static int da(char designationCode) {
  switch (designationCode) {
    case 'e':
      {
        da = 20000;
        break;
      }
    case 'c':
      {
        da = 32000;
        break;
      }
    case 'k':
      {
        da = 12000;
```

```
      break;
    }
  case 'r':
    {
      da = 15000;
      break;
    }
  case 'm':
    {
      da = 40000;
      break;
    }
  default:
    throw new IllegalStateException("Unexpected value: " + designationCode);
 }
 return da;
}

public static int salary(int basic, int hra, int da, int it) {
 int salary = basic + hra + da - it;
 return salary;
}

public static void details(
 String empId,
 String empName,
 String depName,
 String empDesignation,
 int salary
) {
 System.out.println(
  "Emp Id\t\tEmployee Name\tDepartment\t\tDesignation\t\tSalary"
 );
 System.out.println(
  empId+"\t\t"+empName+"\t\t"+depName+"\t\t\t"+empDesignation+"\t\t"+salary );
```

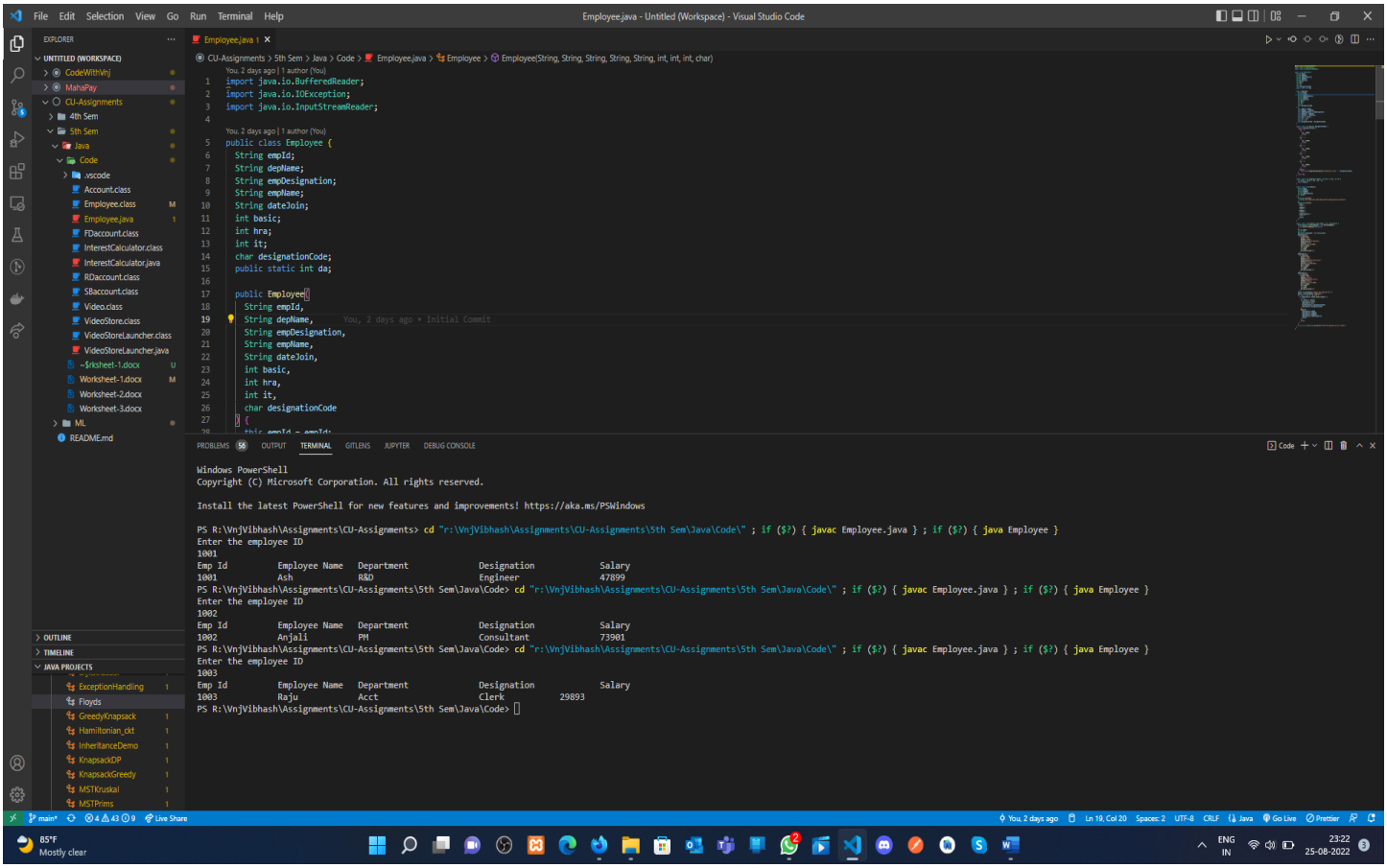
```
}

public static void main(String[] args) throws IOException {
  BufferedReader bufferedReader = new BufferedReader(
    new InputStreamReader(System.in)
  );
  String empId;
  int c = 0;
  Employee[] employees = new Employee[3];
  employees[0] =
    new Employee("1001","R&D","Engineer","Ash","1/04/2009",20000,8000,3000,'e');
  employees[1] =
    new Employee("1002","PM","Consultant","Anjali","23/08/2012",30000, 12000, 9000,'c');
  employees[2] =
    new Employee("1003","Acct","Clerk","Raju","12/11/2008",10000,8000,1000,'k');
  System.out.println("Enter the employee ID ");
  empId = bufferedReader.readLine();
  for (int i = 0; i < 3; i++) {
    if (employees[i].empId.equals(empId)) {
      c = 1;
      int salary = salary(
        employees[i].basic,
        employees[i].hra,
        da(employees[i].designationCode),
        employees[i].designationCode
      );
      details(
        employees[i].empId,
        employees[i].empName,
        employees[i].depName,
        employees[i].empDesignation,
        salary
      );
      break;
```

```
    }
   }
   if (c != 1) System.out.println("Entered employee ID not found");
  }
}
```

5. Observations/Discussions/ Complexity Analysis:

Here we have created the Array with the size of 3 and Data inserted and Give the Search method with Employee

6. Result/Output/Writing Summary:



Learning outcomes (What I have learnt):

1. Learn How to create the array.
2. Array manipulation in java.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			