/*1. Create a Java program to manage daily attendance of employees using a 2D array. Each record should contain:

• Employee ID

• Employee Name

• Status (Present or Absent)

Implement the following operations:

1. Mark attendance (Insert)

2. Display attendance list

3. Update attendance status

4. Delete employee from the list*/

```
import java.util.*;
public class july2hw
{
   static int maxRowsize=100;
   static String[][]employee_list=new String[maxRowsize][3];
   static int size=0;
   public static void insert(String emp_id,String emp_name,String status)
   {
      if(size>maxRowsize)
      {
         System.out.println("The list is full");
         return;
      }
      employee_list[size][0]=emp_id;
      employee_list[size][1]=emp_name;
      employee_list[size][2]=status;
      size++;
   }
   public static void update(int pos,String status)
   {
```

```
    employee_list[pos][2]=status;
}
public static void delete(int pos)
{
    if(pos<0||pos>size)
    {
        System.out.println("Invalid position");
        return;
    }

    for (int i=pos;i<size;i++)
    {
        employee_list[i][0]=employee_list[i+1][0];
        employee_list[i][1]=employee_list[i+1][1];
        employee_list[i][2]=employee_list[i+1][2];
    }
    size--;
}
    public static void display()
    {
        if (size==0)
        {
            System.out.println("No records found");
        }
        else
        {
            for (int i=0;i<size;i++)
            {
                System.out.println(employee_list[i][0]+" "+employee_list[i][1]+" "+employee_list[i][2]);
            }
        }
```

```
}
public static void main(String[]args)
{
   Scanner sc=new Scanner(System.in);
   int choice;
   do{
     System.out.println("Enter the word");
     System.out.println("\n1.Insert \n2.Update\n3.Delete\n4.Display\n5.Exit");
     choice=sc.nextInt();
     sc.nextLine();
     switch(choice)
     {
        case 1:
           System.out.println("Enter id");
           String emp_id=sc.nextLine();
           System.out.println("Enter name");
           String emp_name=sc.nextLine();
           System.out.println("Enter Status");
           String status=sc.nextLine();
           insert(emp_id,emp_name,status);
           break;

         case 2:
            System.out.println("Enter the position to be updated");
            int up_pos=sc.nextInt();
            sc.nextLine();
            System.out.println("Enter the status to be updated");
            String up_status=sc.nextLine();

            update(up_pos,up_status);
            break;
```

```
            case 3:
               System.out.println("Enter the position to be deleted");
               int pos=sc.nextInt();
               delete(pos);
               break;
            case 4:
               display();
               break;
            case 5:
               System.out.println("-----------Exiting----------");
               break;
         }
      }while(choice!=5);



      }
   }
```

```
/*
. A teacher wants to enter marks for 3 students in 2 subjects (e.g., Math and Science). Create a
Java program using a 2D array to:
• Accept the marks from the user
• Display the marks in a table format
*/

import java.util.*;
public class july2hw
{
   public static void main(String[]args)
```

```
{
   Scanner sc=new Scanner(System.in);
   System.out.println("Enter the number of students");
   int rows=sc.nextInt();

   int cols=2;
   sc.nextLine();
   String[][]array1=new String[rows+1][cols+1];
   array1[0][0]="Student";
   array1[0][1]="Maths";
    array1[0][2]="Science";
   for (int i=1;i<=rows;i++)
   {


         array1[i][0]=sc.nextLine();
         array1[i][1]=sc.nextLine();
         array1[i][2]=sc.nextLine();

   }


   for(int i=0;i<=rows;i++)
   {
      for (int j=0;j<=cols;j++)
      {
         System.out.printf("%-15s",array1[i][j]);
      }
   System.out.println();
   }
```

```
    }

}
```