312011 **JAVA EXP 7** SEM III

AIM : WRITE A PROGRAM ON VECTOR

PROBLEM STATEMENT : UPDATION OF TEMPERATURES OF A PLACE WEEKLY BY METEOROLOGICAL DEPT.

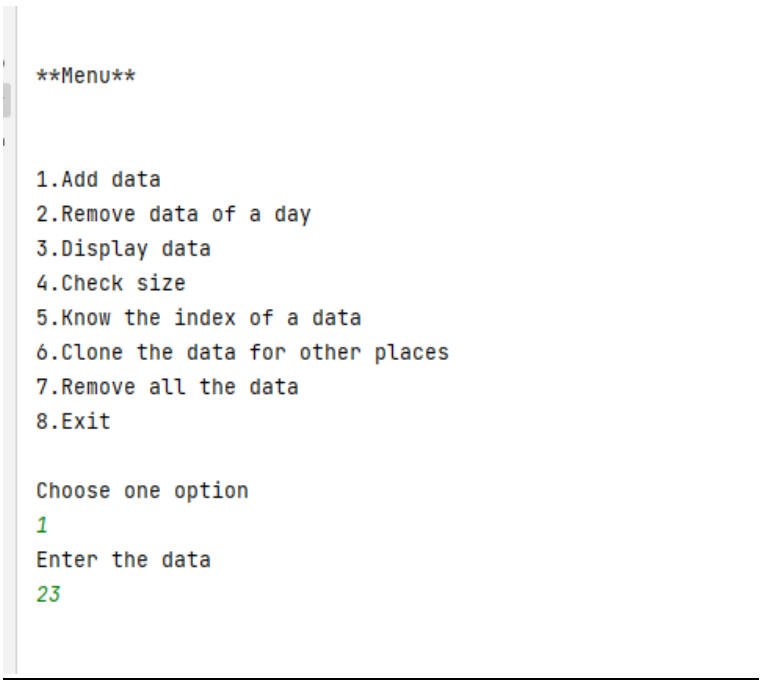
PROGRAM :

```
package practicals.exp7;
import java.util.*;
import java.io.*;

public class MyVector {
    public static void main(String[] args) throws Exception {
        int option = 0;
        Scanner sc = new Scanner(System.in);

        Vector<Integer> place = new Vector<Integer>();

        System.out.println("\n\n***Welcome to meteorological department of
no-where***\n\n");

        System.out.println("We display the temperature of a week\n");

        System.out.println("So we need to add and delete data everyday\n");

        System.out.println("We made available to you \"Mr. Vector\"\n");

        System.out.println("Now just use the menu given by him to manage the
data\n\n");

        System.out.println("Note: Indexes of days\n");
        System.out.println("Monday - 0");
        System.out.println("Tuesday - 1");
        System.out.println("Wednesday - 2");
        System.out.println("Thursday - 3");
        System.out.println("Friday - 4");
        System.out.println("Saturday - 5");
        System.out.println("Sunday - 6\n");

            do {
                System.out.println("\n\n**Menu**\n\n");
                System.out.println("1.Add data");
                System.out.println("2.Remove data of a day");
                System.out.println("3.Display data");
                System.out.println("4.Check size");
                System.out.println("5.Know the index of a data");
                System.out.println("6.Clone the data for other places");
                System.out.println("7.Remove all the data");
                System.out.println("8.Exit\n");
                System.out.println("Choose one option");
                option = sc.nextInt();
```

```
                switch (option)
                {
                    case 1:
                        System.out.println("Enter the data");
                        int temp = sc.nextInt();
                        place.add(temp);
                        break;

                    case 2:
                        System.out.println("Specify index");
                        int temp1 = sc.nextInt();
                        place.removeElementAt(temp1);
                        break;

                    case 3:
                        System.out.println(place);
                        break;

                    case 4:
                        System.out.println(place.size());
                        break;

                    case 5:
                     System.out.println("Enter data you want to know index of");
                        int temp2=sc.nextInt();;

System.out.println(place.indexOf(Integer.valueOf(temp2)));
                        break;

                    case 6:
                      System.out.println("Data of new place: " + place.clone());
                        break;

                    case 7:
                        place.removeAllElements();
                        break;

                    case 8: break;

                    default: System.out.println("Enter a valid expression");
                             break;

                }
            }while(option!=8);
    }
}
```

OUTPUT :


MyString
MyVector
"C:\Program Files\Java\jdk-11.0.12\bin\java.exe" "-javaagent:C:\Progr
Welcome to meteorological department of no-where
We display the temperature of a week
So we need to add and delete data everyday
We made available to you "Mr. Vector"
Now just use the menu given by him to manage the data
Note: Indexes of days
Monday - 0
Tuesday - 1
Wednesday - 2
Thursday - 3
Friday - 4
Saturday - 5
Sunday - 6


Menu
1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit
Choose one option
1
Enter the data
23

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
1
Enter the data
24
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
1
Enter the data
25
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
1
Enter the data
27
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
1
Enter the data
29
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
1
Enter the data
30
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
1
Enter the data
27
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
3
[23, 24, 25, 27, 29, 30, 27]


**Menu**
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
4
7
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
2
Specify index
0
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
1
Enter the data
28
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
3
[24, 25, 27, 29, 30, 27, 28]
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
5
Enter data you want to know index of
30
4
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
6
Data of new place: [24, 25, 27, 29, 30, 27, 28]
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
7
```

```
**Menu**


1.Add data
2.Remove data of a day
3.Display data
4.Check size
5.Know the index of a data
6.Clone the data for other places
7.Remove all the data
8.Exit

Choose one option
3
[]
```
