File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Package Exp... ⊠

week3q1.java   week3q4.java   TwinPrimes.java ⊠   Array_Functi...   »₃

Problems   @ Javadoc   Declaration   Console ⊠

javasem5
M
  src
    (default package
      Array_Functio
      Array_List.java
      EmployeesDa
      PartitionSort.j
      Q6.java
      radius.java
      RemoveDupli
      SelectionSort.
      ShiftRight.java
      ShippingChar
      StudentRoll.ja
      TwinPrimes.ja
      typeVal.java
      week2q1.java
      week2q2.java
      week2q3.java
      week2q4.java
      week2q5.java
      week3q1.java
      week3q2.java
      week3q3.java

```java
1  import java.util.*;
2  public class TwinPrimes {
3      static boolean IsPrime(int n){
4          if(n==1)   return false;
5          int i;
6          for(i=2;i<n;i++){
7              if(n%i==0)
8                  return false;
9          }
10         return true;
11     }
12     static void primes(int start,int end){
13         int i;
14         for(i=start;i<end-2;i++){
15             if(IsPrime(i) && IsPrime(i+2))
16                 System.out.print("("+i+","+(i+2)+")"+"::");
17             i++;
18         }
19     }
20     public static void main(String[] args)
21     {
22         Scanner sc = new Scanner(System.in);
23         int a,b;
24         System.out.print("Range begins at: ");
25         a=sc.nextInt();
26         System.out.print("Range ends at: ");
27         b=sc.nextInt();
28         primes(a,b);
29     }
30 }
31
```

<terminated> TwinPrimes [Java Application] C:\Program Files\Java\jdk1.8.0
Range begins at: 1
Range ends at: 50
(3,5)::(5,7)::(11,13)::(17,19)::(29,31)::(41,43)::

Find   ▶ All

TwinPrimes
  IsPrime(
  primes(i
  main(Str

File Edit Source Refactor Navigate Search Project Run Window Help

Package Exp... ⊠

javasem5
M
  src
    (default package
      Array_Functio
      Array_List.java
      EmployeesDat
      PartitionSort.j
      Q6.java
      radius.java
      RemoveDupli
      SelectionSort.
      ShiftRight.java
      ShippingChar
      StudentRoll.ja
      TwinPrimes.ja
      typeVal.java
      week2q1.java
      week2q2.java
      week2q3.java
      week2q4.java
      week2q5.java
      week3q1.java
      week3q2.java
      week3q3.java
      week3q4.java
      week3q5.java
    application
  JRE System Library [
  JavaFX SDK
  build.fxbuild

week3q4.java   TwinPrimes.java   ShiftRight.java ⊠   Array_Functi...

```java
1  import java.util.*;
2  public class ShiftRight{
3      public static void main(String[] args){
4          Scanner sc = new Scanner(System.in);
5          System.out.println("Enter the value by which the elements must be shifted:
6          int k = sc.nextInt();
7          System.out.println("Enter the no of elements:");
8          int n = sc.nextInt();
9          int []arr = new int[n];
10         int i;
11         System.out.print("Enter the values:");
12         for(i=0;i<n;i++) {
13             arr[i] = sc.nextInt();
14         }
15         int []shiftedArray = shiftRight(arr,k);
16         System.out.println("Shifted Array is: ");
17         for(int x:shiftedArray)System.out.print(x+" ");
18     }
19     public static int[] shiftRight(int []a, int k){
20         int length = a.length;
21         for(int i=0;i<k;i++){
22             int temp = a[length-1];
23             for(int j=length-1;j>0;j--){
24                 a[j]=a[j-1];
25             }
26             a[0]=temp;
27         }
28         return a;
29     }
30 }
31
```

Problems @ Javadoc Declaration Console ⊠

<terminated> ShiftRight [Java Application] C:\Program Files\Java\jdk1.8.0_1
Enter the value by which the elements must be shifted:
3
Enter the no of elements:
5
Enter the values:1 2 3 4 5
Shifted Array is:
3 4 5 1 2

Find   ▶ All

O ⊠

ShiftRight
  main(Str
  shiftRigh

9:42 PM
9/4/2020

File Edit Source Refactor Navigate Search Project Run Window Help

Package Exp... ⋈   ShiftRight.java   RemoveDuplic... ⋈   Array_Functi...   »6   Problems @ Javadoc Declaration Console ⋈   Task List ⋈

```java
 2   public class RemoveDuplicates{
 3       public static int[] removeDuplicate(int arr[]){
 4           int n = arr.length;
 5           if (n==0 || n==1){
 6               return arr;
 7           }
 8           int j = 1;
 9           Arrays.sort(arr);
10           for (int i=1; i<n; i++){
11               if (arr[i] != arr[i-1]){
12                   j++;
13               }
14           }
15           int[] temp=new int[j];
16           j=0;
17           temp[0] = arr[0];
18           j++;
19           for(int i=1;i<n;++i){
20               if(arr[i] != arr[i-1])
21               {
22                   temp[j++]=arr[i];
23               }
24           }
25           return temp;
26       }
27       public static void main (String[] args) {
28           Scanner sc = new Scanner(System.in);
29           System.out.println("Enter the size of the array:");
30           int n=sc.nextInt();
31           int arr[] = new int[n];
32           System.out.println("Enter the array elements:");
33           for (int i=0; i<n;i++) {
34               arr[i] = sc.nextInt();
35           }
36           int[] temp;
37           temp = removeDuplicate(arr);
38           System.out.println("The array elements are:");
39           for(int x:temp)System.out.print(x+" ");
40       }
```

<terminated> RemoveDuplicates [Java Application] C:\Program Files\Java\jdk1.8.

Enter the size of the array:

5

Enter the array elements:

1 1 2 2 3

The array elements are:

1 2 3

Find   ▶ All ▶ Activat...

Outline ⋈

RemoveDuplicates
   removeDuplicate(int[]) : int[
   main(String[]) : void

javasem5
M
   src
      (default package
         Array_Functio
         Array_List.java
         EmployeesDa
         PartitionSort.j
         Q6.java
         radius.java
         RemoveDupli
         SelectionSort.
         ShiftRight.java
         ShippingChar
         StudentRoll.ja
         TwinPrimes.ja
         typeVal.java
         week2q1.java
         week2q2.java
         week2q3.java
         week2q4.java
         week2q5.java
         week3q1.java
         week3q2.java
         week3q3.java
         week3q4.java
         week3q5.java
      application
   JRE System Library [
   JavaFX SDK
   build.fxbuild

Writable   Smart Insert   39 : 24 : 1115

9:38 PM
9/4/2020

Package Exp... ⊠   week3q1.java   Array_Functions.java ⊠

```java
1  import java.util.*;
2  public class Array_Functions{
3      public static void main(String[] args){
4          int a[] = new int[5];
5          int b[] = new int[a.length];
6          Scanner sc = new Scanner(System.in);
7          for(int i=0;i<5;i++)
8          {
9              System.out.print("\nEnter the number:");
10             a[i]=sc.nextInt();
11         }
12         System.arraycopy(a, 0, b, 0, 5);
13         System.out.println("\nArray a:");
14         for (int i=0; i<a.length; i++)
15             System.out.print(a[i] + " ");
16
17         System.out.println("\nArray b:");
18         for (int i=0; i<b.length; i++)
19             System.out.print(b[i] + " ");
20         Arrays.sort(a);
21         System.out.print("\nSorting array a yields:");
22         for(int i=0;i<a.length;i++){
23             System.out.print(a[i] + " ");
24         }
25         boolean res=Arrays.equals(a,b);
26         System.out.printf("\nThe arrays a and b are %s",res?"equal":"not equal");
27         System.out.print("\nEnter the element to be searched for:");
28         int key=sc.nextInt();
29         int index=Arrays.binarySearch(a,key);
30         if(key>0)
31             System.out.print("\nElement"+key+"found at index: "+index);
32         else
33             System.out.print("\nElement not found");
34     }
35 }
```

Problems @ Javadoc Declaration Console ⊠

<terminated> Array_Functions [Java Application] C:\Program Files\Java\jdk

```
Enter the number:1

Enter the number:2

Enter the number:3

Enter the number:4

Enter the number:5

Array a:
1 2 3 4 5
Array b:
1 2 3 4 5
Sorting array a yields:1 2 3 4 5
The arrays a and b are equal
Enter the element to be searched for:4

Element4found at index: 3
```

Package Explorer tree:
- javasem5
- M
  - src
    - (default package)
      - Array_Functio
      - Array_List.java
      - EmployeesDa
      - PartitionSort.j
      - Q6.java
      - radius.java
      - RemoveDupli
      - SelectionSort.
      - ShiftRight.java
      - ShippingChar
      - StudentRoll.ja
      - TwinPrimes.ja
      - typeVal.java
      - week2q1.java
      - week2q2.java
      - week2q3.java
      - week2q4.java
      - week2q5.java
      - week3q1.java
      - week3q2.java
      - week3q3.java
      - week3q4.java
      - week3q5.java
    - application
  - JRE System Library [
  - JavaFX SDK
  - build.fxbuild

9:48 PM 9/4/2020

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Package Exp... ⊠   Array_List.java   Array_Functi...   SelectionSo...   PartitionSo... ⊠   »₈   Probl... @ Java... Decla... Cons... ⊠   Task List ⊠

```java
1  import java.util.*;
2  public class PartitionSort {
3      static int[] partition(int arr[]){
4          int pivot = arr[0];
5          int i = -1; // index of smaller element
6          for (int j=0; j< arr.length; j++){
7              if (arr[j] < pivot){
8                  i++;
9                  arr[i] = arr[i] + arr[j];
10                 arr[j] = arr[i] - arr[j];
11                 arr[i] = arr[i] - arr[j];
12             }
13         }
14
15         return arr;
16     }
17     public static void main(String[] args) {
18         // TODO Auto-generated method stub
19         Scanner sc=new Scanner(System.in);
20         System.out.println("Enter the size of the array:");
21         int n = sc.nextInt();
22         int arr[] = new int[n];
23         System.out.println("Enter the array elements:");
24         for (int i = 0; i < n; i++) {
25             arr[i] = sc.nextInt();
26         }
27         int ans[] = partition(arr);
28         System.out.println("After the partition sort:");
29         for(int i =0 ;i< ans.length;i++) {
30             System.out.print(ans[i]+" ");
31         }
32     }
33
34 }
35
```

<terminated> PartitionSort [Java Application] C:\Program Files\Ja

```
Enter the size of the array:
7
Enter the array elements:
4 5 1 2 34 23 6
After the partition sort:
1 2 4 5 34 23 6
```

Find   ▶ All ▶ Activat...

Package Explorer:
- javasem5
- M
  - src
    - (default package)
      - Array_Functions.
      - Array_List.java
      - EmployeesData.j
      - PartitionSort.java
      - Q6.java
      - radius.java
      - RemoveDuplicat
      - SelectionSort.jav
      - ShiftRight.java
      - ShippingCharges
      - TwinPrimes.java
      - typeVal.java
      - week2q1.java
      - week2q2.java
      - week2q3.java
      - week2q4.java
      - week2q5.java
      - week3q1.java
      - week3q2.java
      - week3q3.java
      - week3q4.java
      - week3q5.java
    - application
  - JRE System Library [Jav
  - JavaFX SDK
  - build.fxbuild
- MOOCTextEditor

Outline ⊠

- PartitionSort
  - partition(int[]) : int[]
  - main(String[]) : void

8:25 PM
9/4/2020

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Package Exp... 23

javasem5
M
  src
    (default package)
      Array_Functions.
      Array_List.java
      EmployeesData.ja
      Q6.java
      radius.java
      RemoveDuplicat
      SelectionSort.jav
      ShiftRight.java
      ShippingCharges
      TwinPrimes.java
      typeVal.java
      week2q1.java
      week2q2.java
      week2q3.java
      week2q4.java
      week2q5.java
      week3q1.java
      week3q2.java
      week3q3.java
      week3q4.java
      week3q5.java
    application
  JRE System Library [Jav
  JavaFX SDK
  build.fxbuild
MOOCTextEditor

Array_List.java   Array_Functi...   Q6.java   EmployeesDa... 23

```java
1  import java.util.*;
2  public class EmployeesData {
3
4      public static void main(String[] args) {
5          // TODO Auto-generated method stub
6          Scanner sc = new Scanner(System.in);
7          System.out.println("Enter number of employees : ");
8          int employees = sc.nextInt();
9          ArrayList<Integer> totalWorking = new ArrayList<Integer>();
10
11         System.out.println("Enter work hours of employees for 7 days: ");
12         int Work[][]=new int[employees][8];
13         for(int i=0; i<employees;i++){
14             System.out.println("Employee "+i);
15             for(int j=0; j<7;j++)
16             {
17                 Work[i][j]=sc.nextInt();
18                 Work[i][7] += Work[i][j];
19             }
20         }
21         for(int i =0 ;i<employees;i++){
22             totalWorking.add(Work[i][7]);
23         }
24         System.out.println("Work hours of employees in descending order: ");
25         for(int i = 0;i<employees;i++){
26             int highest = Collections.max(totalWorking);
27             int index = totalWorking.indexOf(highest);
28             System.out.println("Employee "+index+" : "+highest+"hrs");
29             totalWorking.set(index,-1);
30         }
31     }
32
33 }
34
```

Probl...   @ Java...   Decla...   Cons... 23

<terminated> EmployeesData [Java Application] C:\Program File:
Enter number of employees :
2
Enter work hours of employees for 7 days:
Employee 0
1 2 3 4 5 6 7
Employee 1
3 4 5 2 6 7 8
Work hours of employees in descending order:
Employee 1 : 35hrs
Employee 0 : 28hrs

Task List 23

Find   All   Activat...

Outline 23

EmployeesData
  main(String[]) : void

Writable   Smart Insert   18 : 42 : 677

8:16 PM
9/4/2020

Package Ex...   TwinPrimes.java   ShiftRight.java   RemoveDuplic...   Array_Functi...   Array_List.java   StudentRoll....   Task List

```java
1  import java.util.*;
2  public class StudentRoll {
3      private ArrayList<String> students= new ArrayList<String>();;
4      private String name;
5      StudentRoll(){
6      //  ArrayList<String>students = new ArrayList<String>();
7      }
8      public boolean checkName(String name) {
9          //if(students.contains(name))return true;
10         for(String x:students) {
11             if(x.equals(name))return true;
12         }
13         return false;
14     }
15     public void addName(String name) {
16         students.add(name);
17         System.out.println("Name added");
18     }
19     public int getIndex(String name) {
20         //return students.indexOf(name);
21         int c=0;
22         for(String x:students) {
23             if(x.equals(name))return c;
24             c++;
25         }
26         return -1;
27     }
28     public void deleteName(String name) {
29         if(!checkName(name)){
30             System.out.println("Name does not exist");
31             return;
32         }
33         students.remove(name);
34         System.out.println("Name Deleted!");
35     }
36     public void printList() {
37         if(students.size()==0) {
38             System.out.println("There are no enrolled students:");
39             return;
```

javasem5
M
src
(default package)
Array_Functi
Array_List.jav
EmployeesD
PartitionSort.
Q6.java
radius.java
RemoveDupl
SelectionSort
ShiftRight.jav
ShippingCha
StudentRoll.j
TwinPrimes.j
typeVal.java
week2q1.java
week2q2.java
week2q3.java
week2q4.java
week2q5.java
week3q1.java
week3q2.java
week3q3.java
week3q4.java
week3q5.java
application
JRE System Library
JavaFX SDK
build.fxbuild

Outline

StudentRoll
   students : ArrayList<String
   name : String
   StudentRoll()
   checkName(String) : boole
   addName(String) : void
   getIndex(String) : int
   deleteName(String) : void
   printList() : void
   getCount() : int
   main(String[]) : void

Writable   Smart Insert   73 : 21 : 2018

9:14 PM
9/4/2020

Package Ex... ⊠

Workspace

javasem5
M
src
(default package)
Array_Functi
Array_List.jav
EmployeesDa
PartitionSort.
Q6.java
radius.java
RemoveDupl
SelectionSort
ShiftRight.jav
ShippingCha
StudentRoll.j
TwinPrimes.j
typeVal.java
week2q1.java
week2q2.java
week2q3.java
week2q4.java
week2q5.java
week3q1.java
week3q2.java
week3q3.java
week3q4.java
week3q5.java
application
JRE System Library
JavaFX SDK
build.fxbuild

TwinPrimes.java   ShiftRight.java   RemoveDuplic...   Array_Functi...   Array_List.java   StudentRoll.... ⊠

```java
36      public void printList() {
37          if(students.size()==0) {
38              System.out.println("There are no enrolled students:");
39              return;
40          }
41
42          System.out.println("The following is the list of enrolled students:");
43          Collections.reverse(students);
44          for(int i = 0;i<students.size();i++){
45              System.out.println(students.get(i));
46          }
47          Collections.reverse(students);
48      }
49
50      public int getCount() {
51          try {
52          return students.size();
53          }
54          catch(Exception NullPointerException){
55              return 0;
56          }
57      }
58
59      public static void main(String[] args) {
60          // TODO Auto-generated method stub
61          Scanner sc = new Scanner(System.in);
62          StudentRoll obj1 = new StudentRoll();
63          //obj1.students.add("hari");
64          while(true){
65              System.out.println("Enter 1-add; 2-check; 3- remove; 4-indexof; 5-getList, 6-size");
66              System.out.println("Enter the choice:");
67              int n = sc.nextInt();
68              String name;
69              switch(n){
70                  case 1:
71                      System.out.println("Enter the name:");
72                      name = sc.next();
73                      if(obj1.checkName(name)) {
74                          System.out.println("Name exists");
```
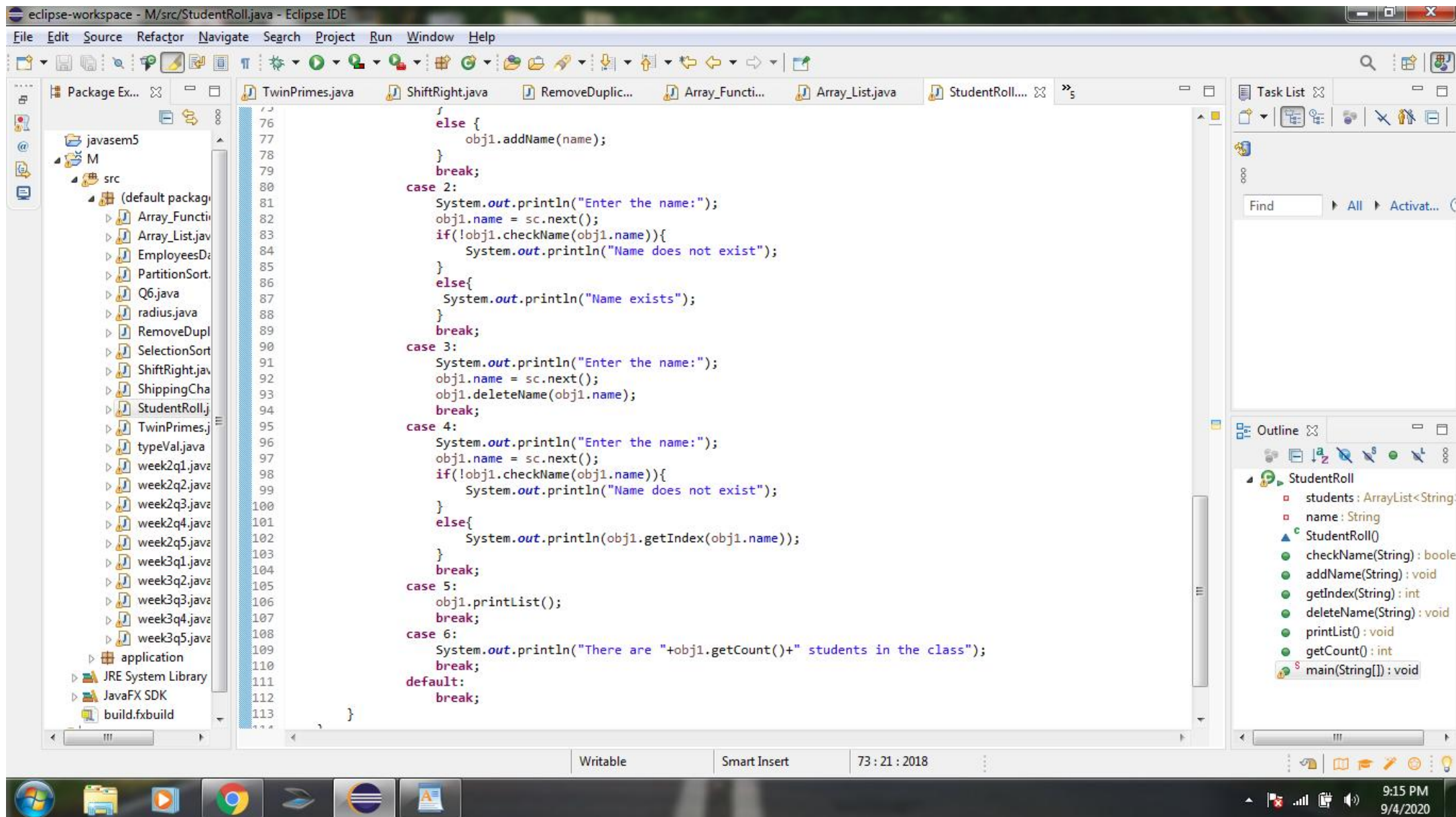
Task List ⊠

Find   ▶ All ▶ Activat...

Outline ⊠

StudentRoll
    students : ArrayList<String
    name : String
    StudentRoll()
    checkName(String) : boole
    addName(String) : void
    getIndex(String) : int
    deleteName(String) : void
    printList() : void
    getCount() : int
    main(String[]) : void

Writable   Smart Insert   73 : 21 : 2018

9:14 PM
9/4/2020

File Edit Source Refactor Navigate Search Project Run Window Help

TwinPrimes.java   ShiftRight.java   RemoveDuplic...   Array_Functi...   Array_List.java   StudentRoll.... ⊠

```
76              }
77              else {
78                  obj1.addName(name);
79              }
80              break;
         case 2:
81              System.out.println("Enter the name:");
82              obj1.name = sc.next();
83              if(!obj1.checkName(obj1.name)){
84                  System.out.println("Name does not exist");
85              }
86              else{
87                  System.out.println("Name exists");
88              }
89              break;
90          case 3:
91              System.out.println("Enter the name:");
92              obj1.name = sc.next();
93              obj1.deleteName(obj1.name);
94              break;
95          case 4:
96              System.out.println("Enter the name:");
97              obj1.name = sc.next();
98              if(!obj1.checkName(obj1.name)){
99                  System.out.println("Name does not exist");
100             }
101             else{
102                 System.out.println(obj1.getIndex(obj1.name));
103             }
104             break;
105         case 5:
106             obj1.printList();
107             break;
108         case 6:
109             System.out.println("There are "+obj1.getCount()+" students in the class");
110             break;
111         default:
112             break;
113         }
```

Package Ex... ⊠

javasem5
M
  src
    (default package)
      Array_Functi
      Array_List.jav
      EmployeesDa
      PartitionSort.
      Q6.java
      radius.java
      RemoveDupl
      SelectionSort
      ShiftRight.jav
      ShippingCha
      StudentRoll.j
      TwinPrimes.j
      typeVal.java
      week2q1.java
      week2q2.java
      week2q3.java
      week2q4.java
      week2q5.java
      week3q1.java
      week3q2.java
      week3q3.java
      week3q4.java
      week3q5.java
    application
  JRE System Library
  JavaFX SDK
  build.fxbuild

Task List ⊠

Find   ▸ All ▸ Activat...

Outline ⊠

StudentRoll
  students : ArrayList<String
  name : String
  StudentRoll()
  checkName(String) : boole
  addName(String) : void
  getIndex(String) : int
  deleteName(String) : void
  printList() : void
  getCount() : int
  main(String[]) : void

Writable   Smart Insert   73 : 21 : 2018

9:15 PM
9/4/2020

Problems @ Javadoc Declaration Console ⌘

StudentRoll [Java Application] C:\Program Files\Java\jdk1.8.0_144\bin\javaw.exe (Sep 4, 2020, 9:11:21 PM)

```
Enter 1-add; 2-check; 3- remove; 4-indexof; 5-getList, 6-size
Enter the choice:
1
Enter the name:
hari
Name added
Enter 1-add; 2-check; 3- remove; 4-indexof; 5-getList, 6-size
Enter the choice:
6
There are 1 students in the class
Enter 1-add; 2-check; 3- remove; 4-indexof; 5-getList, 6-size
Enter the choice:
3
Enter the name:
hari
Name Deleted!
Enter 1-add; 2-check; 3- remove; 4-indexof; 5-getList, 6-size
Enter the choice:
6
There are 0 students in the class
Enter 1-add; 2-check; 3- remove; 4-indexof; 5-getList, 6-size
Enter the choice:
1
Enter the name:
srihari
Name added
Enter 1-add; 2-check; 3- remove; 4-indexof; 5-getList, 6-size
Enter the choice:
1
Enter the name:
java
Name added
Enter 1-add; 2-check; 3- remove; 4-indexof; 5-getList, 6-size
Enter the choice:
5
The following is the list of enrolled students:
java
srihari
```

```
Enter the name:
java
Name added
Enter 1-add; 2-check; 3- remove; 4-indexof; 5-getList, 6-size
Enter the choice:
5
The following is the list of enrolled students:
java
srihari
Enter 1-add; 2-check; 3- remove; 4-indexof; 5-getList, 6-size
Enter the choice:
4
Enter the name:
java
1
```