WECTOR

Identify errors in the code below and provide the correct version. Otherwise state the output.

[Kenapa kod-kod berikut akan menyebabkan ralat pengkompil? Betulkan kod tersebut.]

```
public class Town
 1
 2
    public static void main(String[] args)
 3
 4
       java.util.ArrayList townList = new
 5
   java.util.ArrayList();
 6
 7
       townList.add("[Kangar,");
 8
       townList.add("Alor Setar,");
 9
       townList.add("Sungei Petani,");
10
       townList.add("Penang,");
11
       townList.add("Kuala Kangsar,");
12
       townList.add("Ipoh,");
13
      townList.add("Kuala Lumpur]");
14
15
        for(int i=0;i<townList.size();i++)</pre>
16
          System.out.print(townList.get(i)+" ");
17
18
19
        System.out.println();
20
21
```

- Program 6.1 is an example of ArrayList, where each element is an object of class Circle.

 [Aturcara 6.1 adalah satu contoh ArrayList dimana setiap elemen adalah objek bagi kelas Circle.]
 - i. Copy the code, compile and run it. Observe the output.

 [Salin kod, kompil dan laksanakan. Perhatikan output yang tercetak.]
 - ii. Insert statement to add additional three(3) Circle objects.

 [Masukkan pernyataan untuk menambah tiga objek Circle.]
 - iii. Remove the second element from the list. [Singkirkan elemen kedua daripada senarai.]
 - iv. Print the information of all elements of the list. [Cetak maklumat semua elemen dalam senarai.]
 - v. Create another class Rectangle, create 4 objects and add them to the new ArrayList and print the contents of the new list.

 [Ciptakan kelas Rectangle, cipta 4 objek dan masukkan objek-objek tersebut dalam senarai ArrayList baru dan cetak kandungan senarai semasa.]

```
//Program 6.1
   import java.util.ArrayList;
 3
   class Circle
 5
 6
     private double radius;
 7
 8
     public Circle(double radius)
10
         this.radius = radius;
11
12
13
     public double getRadius()
14
15
16
         return radius;
17
18
19
     public void setRadius()
20
21
         this.radius = radius;
22
23
24
     public double getArea ()
```

```
25
        return (Math.PI*radius*radius);
26
      }
27
    }
28
29
   public class TestCircle
30
31
       public static void main (String [] args)
32
33
          ArrayList circList = new ArrayList();
34
35
          circList.add(new Circle(2.3));
36
          circList.add(new Circle(3.3));
37
38
          System.out.printf("The area of the
39
40
   circle: %2.2f", ((Circle) circList.get(0)).getArea());
41
42
43
```

3. Complete the program below using ArrayList class by writing at the empty underlined space.

underlined space.

[Lengkapkan atur cara berikut menggunakan ArrayList dengan mengini tempat kosong.]

```
import
  1
 2
     .class Cuba
 3
 4
 5
         public static void main(String[] args) {
         // declare ArrayList object named student
 8
         9
10
11
12
        // add two elements "Siti Rahimah" and "Robert Lau" to
13
         student ArrayList
14
             // [ tambah 2 elemen "Siti Rahimah " dan "Robert
15
         Lau" kepada ArrayList student ]
16
17
18
19
20
        // display all the content of student ArrayList using
21
22
         loop statement
        // [pamirkan kandungan ArrayList student menggunakan
23
24
         penyataan gelung]
25
26
27
28
       // replace the content of the first element to "Muhammad"
29
        // [gantikan kandungan elemen pertama kepada "Muhammad"]
30
31
32
33
34
    }
```