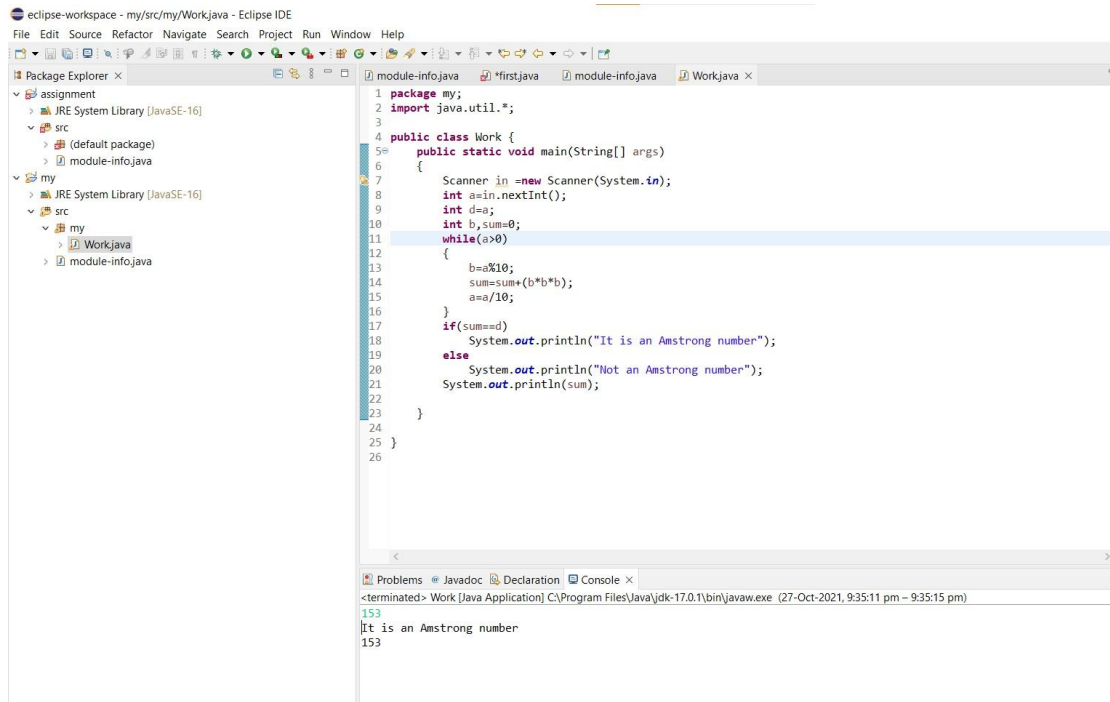


# Core java

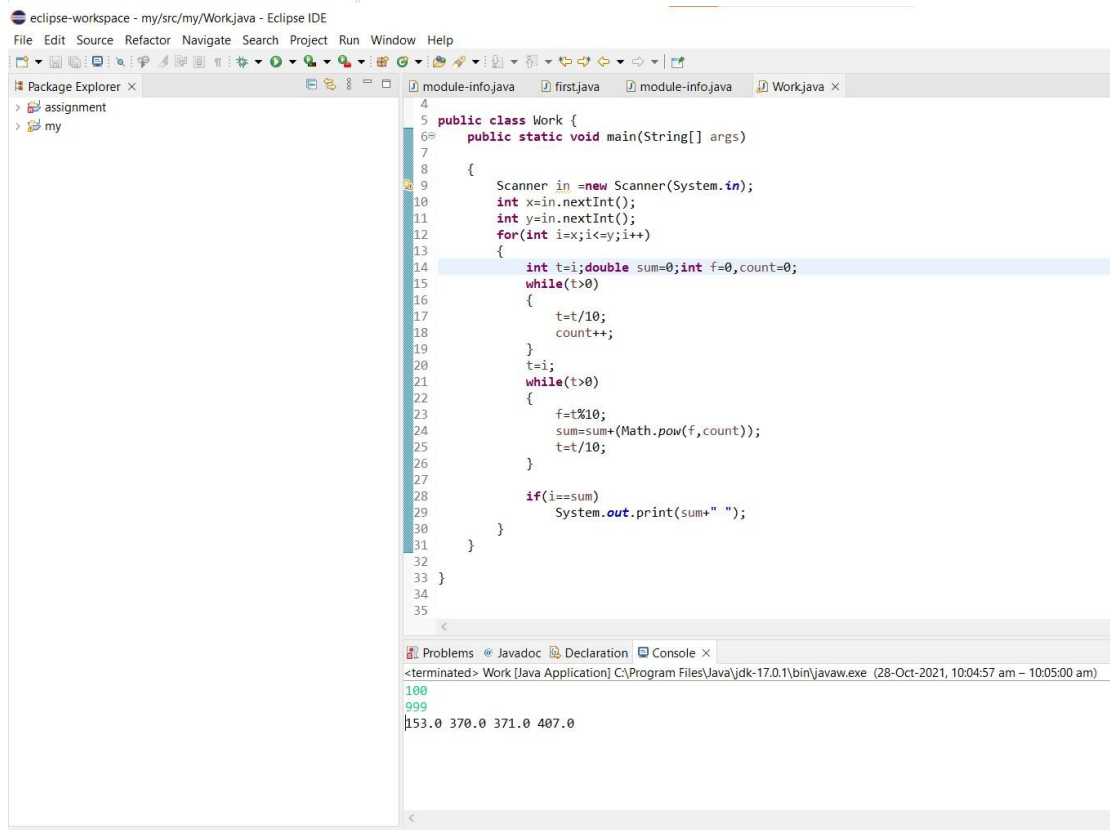
## Assignment-1



The screenshot shows the Eclipse IDE with a project named 'my' containing a package 'my' and a class 'Workjava'. The code in 'Workjava' is as follows:

```
1 package my;
2 import java.util.*;
3
4 public class Work {
5     public static void main(String[] args)
6     {
7         Scanner in =new Scanner(System.in);
8         int a=in.nextInt();
9         int d=a;
10        int b,sum=0;
11        while(a>0)
12        {
13            b=a%10;
14            sum=sum+(b*b*b);
15            a=a/10;
16        }
17        if(sum==d)
18            System.out.println("It is an Armstrong number");
19        else
20            System.out.println("Not an Armstrong number");
21        System.out.println(sum);
22    }
23 }
24
25 }
26
```

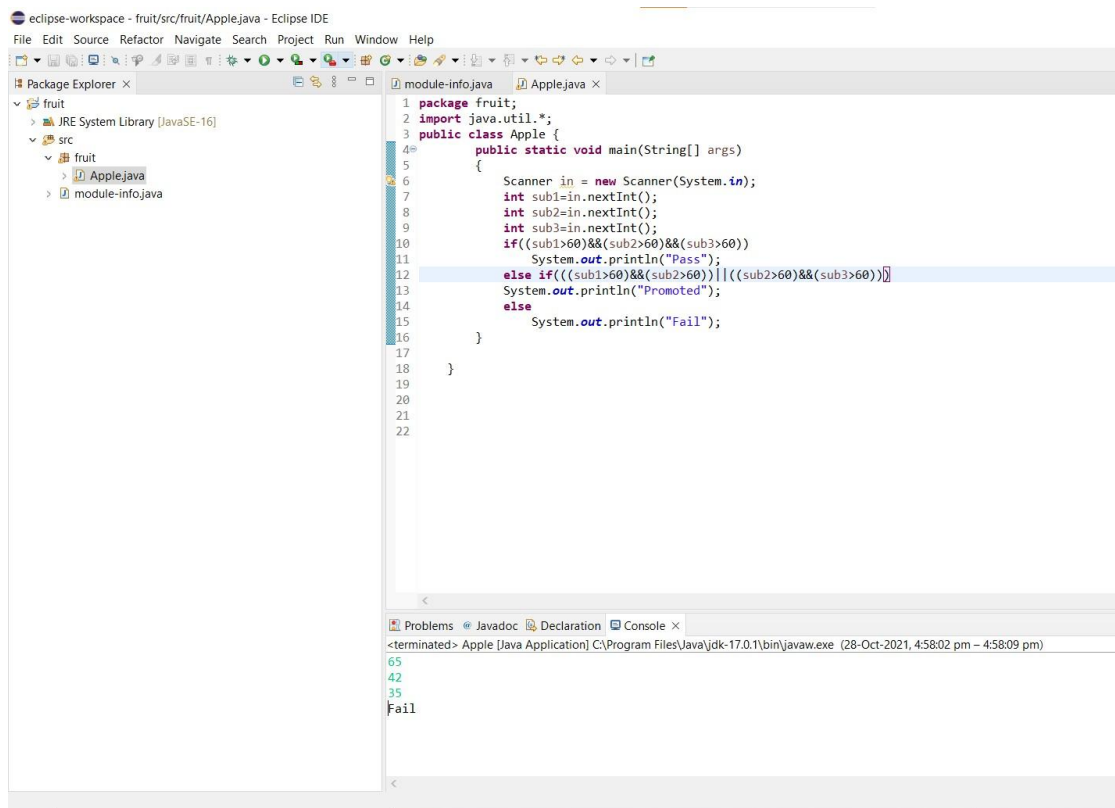
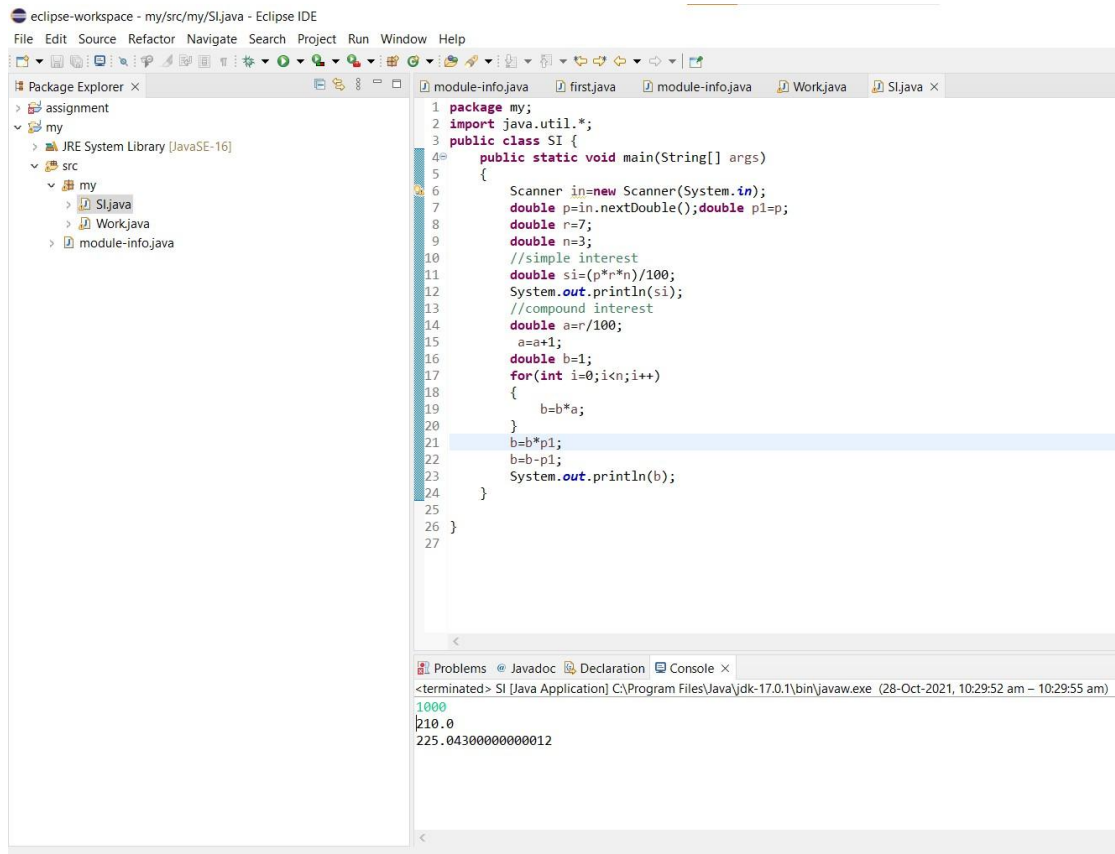
The console output shows the program terminated successfully and printed the message: "It is an Armstrong number".

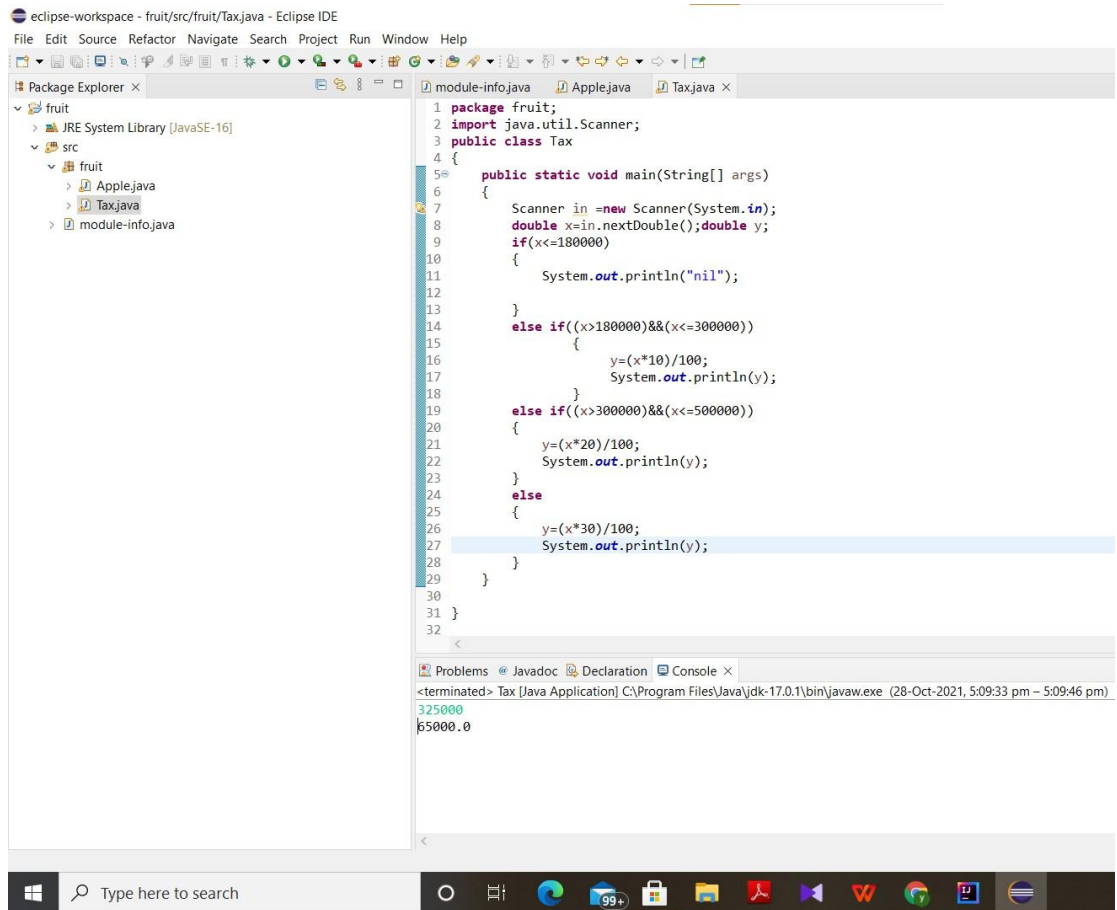


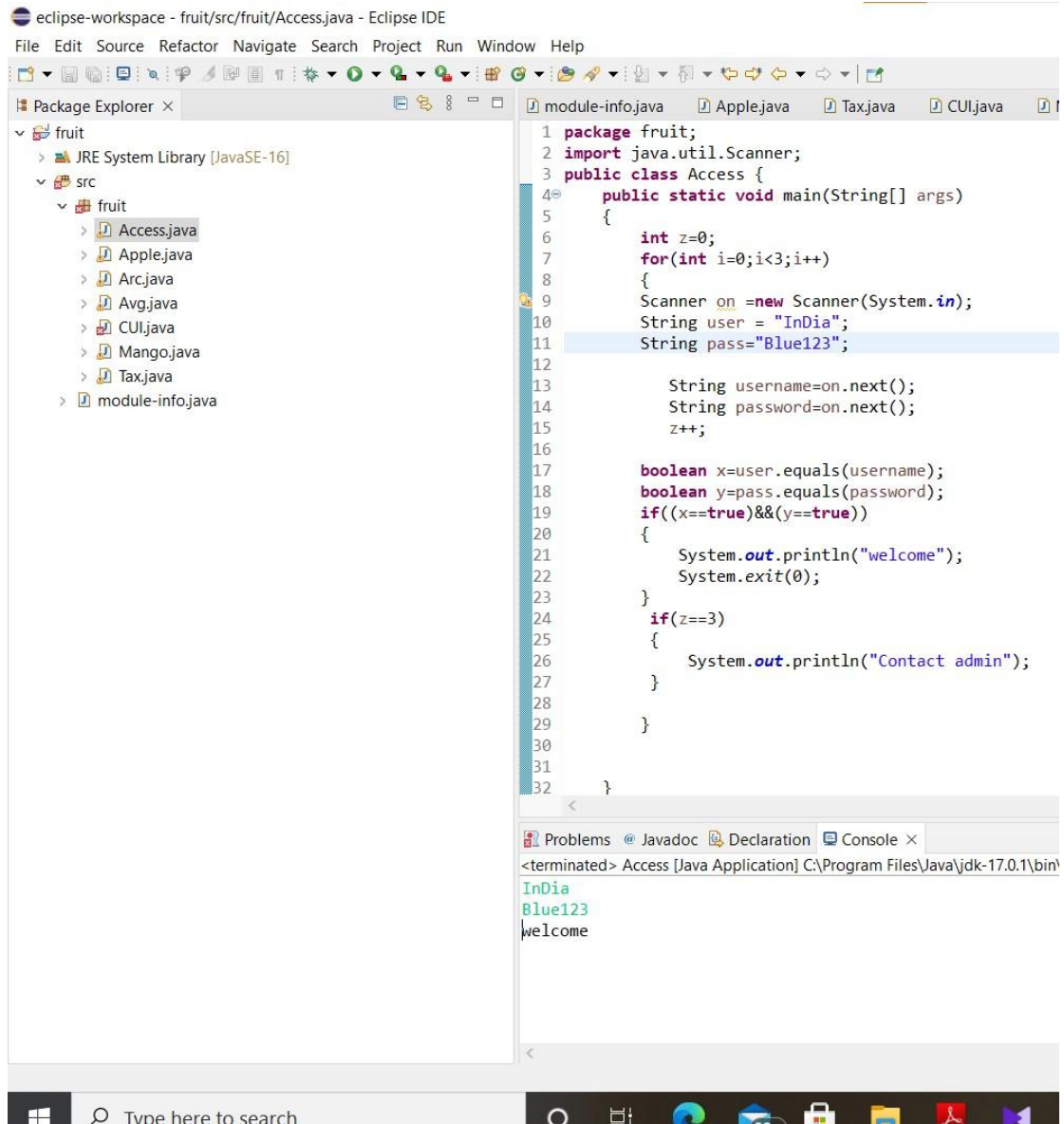
The screenshot shows the Eclipse IDE with the same project 'my' and package 'my'. The code in 'Workjava' is as follows:

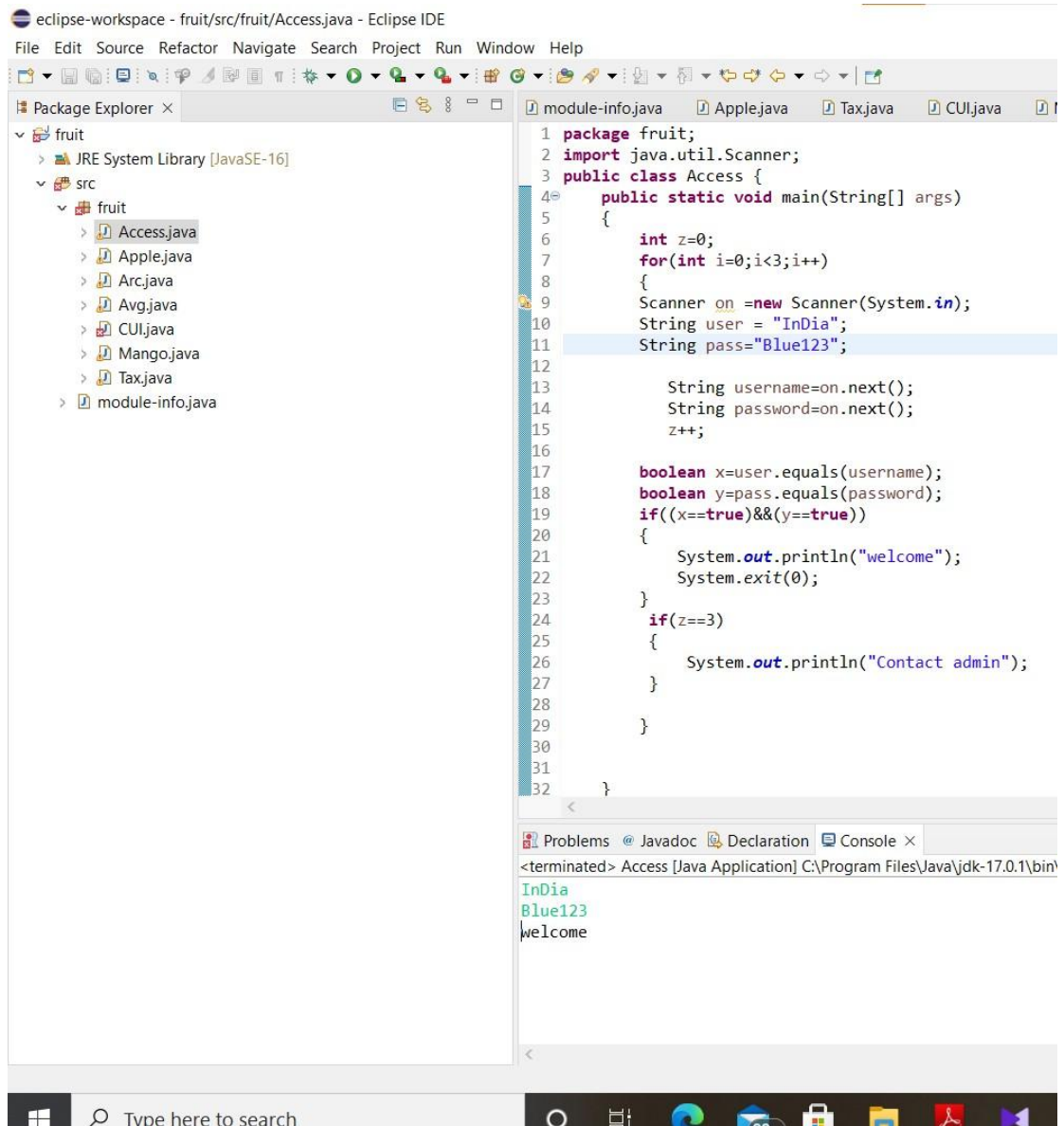
```
4
5 public class Work {
6     public static void main(String[] args)
7     {
8         Scanner in =new Scanner(System.in);
9         int x=in.nextInt();
10        int y=in.nextInt();
11        for(int i=x;i<=y;i++)
12        {
13            int t=i;double sum=0;int f=0,count=0;
14            while(t>0)
15            {
16                t=t/10;
17                count++;
18            }
19            t=i;
20            while(t>0)
21            {
22                f=t%10;
23                sum=sum+(Math.pow(f,count));
24                t=t/10;
25            }
26            if(i==sum)
27                System.out.print(sum+" ");
28        }
29    }
30 }
31
32 }
33
34
35
```

The console output shows the program terminated successfully and printed the message: "153.0 370.0 371.0 407.0".









Package Explorer

- fruit
  - JRE System Library [JavaSE-16]
  - src
    - fruit
      - Access.java
      - Apple.java
      - Arc.java
      - Avg.java
      - CUI.java
      - Mango.java
      - Tax.java
    - module-info.java

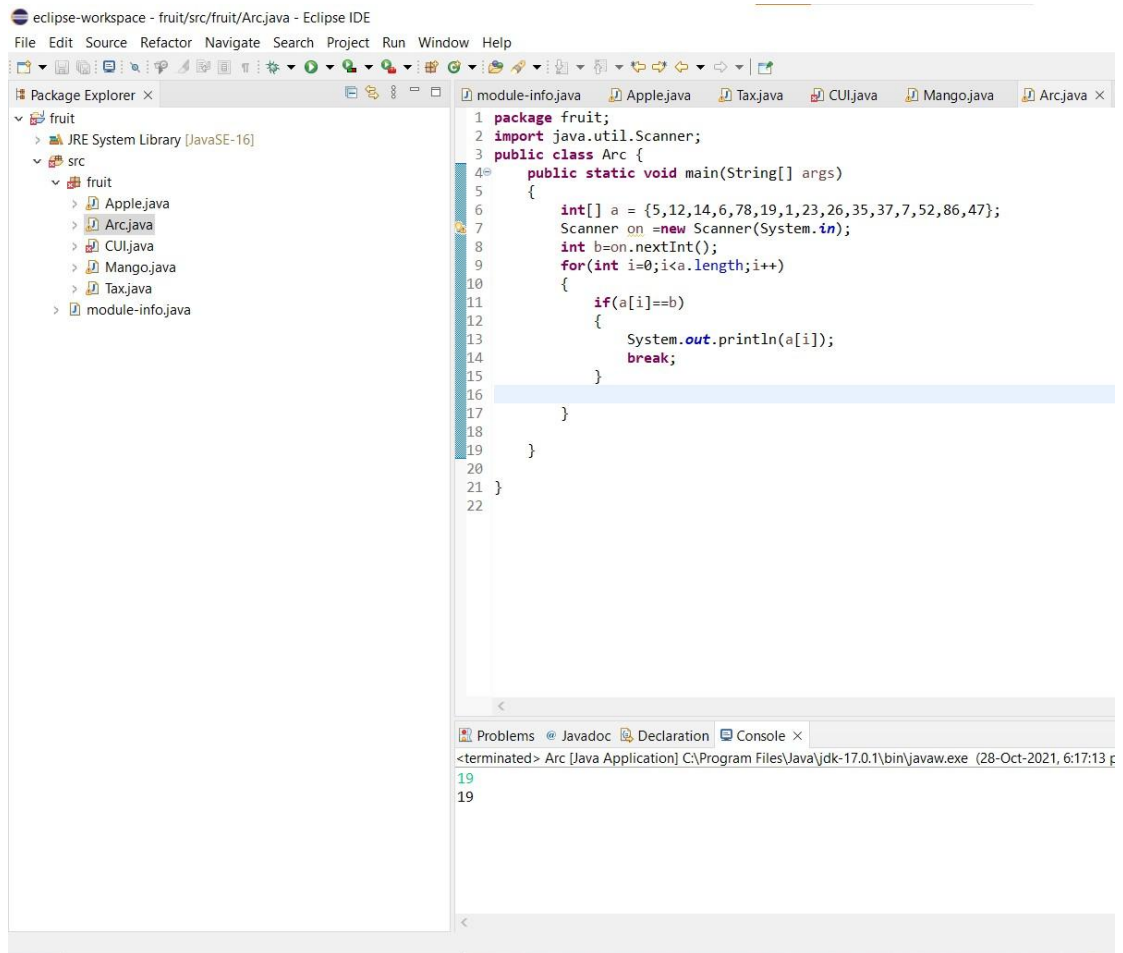
module-info.java Apple.java Tax.java CUI.java

```
1 package fruit;
2 import java.util.Scanner;
3 public class Access {
4     public static void main(String[] args)
5     {
6         int z=0;
7         for(int i=0;i<3;i++)
8         {
9             Scanner on =new Scanner(System.in);
10            String user = "InDia";
11            String pass="Blue123";
12
13            String username=on.next();
14            String password=on.next();
15            z++;
16
17            boolean x=user.equals(username);
18            boolean y=pass.equals(password);
19            if((x==true)&&(y==true))
20            {
21                System.out.println("welcome");
22                System.exit(0);
23            }
24            if(z==3)
25            {
26                System.out.println("Contact admin");
27            }
28        }
29    }
30
31
32 }
```

Problems @ Javadoc Declaration Console

<terminated> Access [Java Application] C:\Program Files\Java\jdk-17.0.1\bin

india  
blue123  
InDia  
blue123  
india  
Blue123  
Contact admin





eclipse-workspace - fruit/src/fruit/Arc.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer ×

fruit

```
1 package fruit;
2 import java.util.Scanner;
3 public class Arc {
4     public static void main(String[] args)
5     {
6         int[] a = {5,12,14,6,78,19,1,23,26,35,37,7,52,86,47};
7         int l=a.length;int x;
8         for(int i=0;i<l;i++)
9         {
10             for(int j=1;j<l-i;j++)
11             {
12                 if(a[j-1]>a[j])
13                 {
14                     x=a[j-1];
15                     a[j-1]=a[j];
16                     a[j]=x;
17                 }
18             }
19         }
20         for(int k=0;k<l;k++)
21         {
22             System.out.print(a[k]+" ");
23         }
24     }
25 }
26 }
27 }
28 }
29 }
```

Problems Javadoc Declaration Console ×

<terminated> Arc [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (29-C

1 5 6 7 12 14 19 23 26 35 37 47 52 78 86

eclipse-workspace - fruit/src/fruit/Avg.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer ×

fruit

```
1 package fruit;
2 import java.util.Scanner;
3 public class Avg {
4     public static void main(String[] args)
5     {
6         Scanner in = new Scanner(System.in);float total_sum,total_avg,individual_sum,individual_avg;
7         System.out.println("Enter the marks of first student: ");
8         float a1=in.nextFloat();
9         float b1=in.nextFloat();
10        float c1=in.nextFloat();
11        System.out.println("Enter the marks of the second student: ");
12        float a2=in.nextFloat();
13        float b2=in.nextFloat();
14        float c2=in.nextFloat();
15        System.out.println("Enter the marks of the third student: ");
16        float a3=in.nextFloat();
17        float b3=in.nextFloat();
18        float c3=in.nextFloat();
19        total_sum=a1+a2+a3+b1+b2+b3+c1+c2+c3;
20        total_avg=total_sum/9;
21        System.out.println("Total sum = "+total_sum+",Total average = "+total_avg);
22        individual_sum=a1+a2+a3;
23        individual_avg=individual_sum/3;
24        System.out.println("Total sum and Average of students in sub 1 = "+individual_sum+",individual_avg);
25        individual_sum=b1+b2+b3;
26        individual_avg=individual_sum/3;
27        System.out.println("Total sum and Average of students in sub 1 = "+individual_sum+",individual_avg);
28        individual_sum=c1+c2+c3;
29        individual_avg=individual_sum/3;
30        System.out.println("Total sum and Average of students in sub 1 = "+individual_sum+",individual_avg);
31    }
32 }
```

Problems Javadoc Declaration Console ×

<terminated> Avg [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (29-Oct-2021, 10:33:31 am - 10:33:55 am)

88  
93  
Total sum = 710.0,Total average = 78.888885  
Total sum and Average of students in sub 1 = 288.0,69.333336  
Total sum and Average of students in sub 1 = 245.0,81.666664  
Total sum and Average of students in sub 1 = 257.0,85.666664



