Laboratory Exercises 5
Java Selection Statements: If Statement

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Section: BSCPE 2GF

Date: 21/10/2021
Score:_____

Write your answer on the space provided.

1. Write a program using if statement to convert car consumption from one unit to another. Offer the user the choice of either conversion, kpl to mpg or mpg to kpl.

   The interface should be:

```
PREFERRED CONVERSION:
1. kpl to mpg
2. mpg to kpl
Enter your choice: 2
Enter miles per gallon value: mpg_value
The equivalent kilometres per litre is: kpl_value
```

   Useful formula:

   mpg = (kpl / 1.609) * 3.785

   kpl = (mpg * 1.609) / 3.785

   Maximum of 4 statements only.

```
1  import java.util.Scanner;
2  public class MyClass {
3      public static void main(String args[]) {
4
5
6        Scanner input=new Scanner (System.in);
7
8        System.out.print("PREFERRED CONVERSION: \n1. kpl to mpg \n2. mpg to kpl \nEnter your choice: ");
9        double A = input.nextInt();
10
11       if (A==1)
12
13       {
14
15       System.out.println("Enter kilometr per liter value: ");
16       double kpl = input.nextInt();
17       System.out.println("The equivalent kilometers per litre is: "+(kpl/1.609*3.785)+"mpg");
18
19       }
20
21       if (A==2)
22
23       {
24
25       System.out.print("Enter kilometr per liter value: ");
26       double mgp = input.nextInt();
27       System.out.println("The equivalent kilometers per litre is: "+(mgp*1.609/3.785)+" mpg");
28
29       }
30
31     }
32 }
```

CommandLine Arguments

JDK 11.0.4

Interactive

Execute

Result

compiled and executed in 11.474 sec(s)

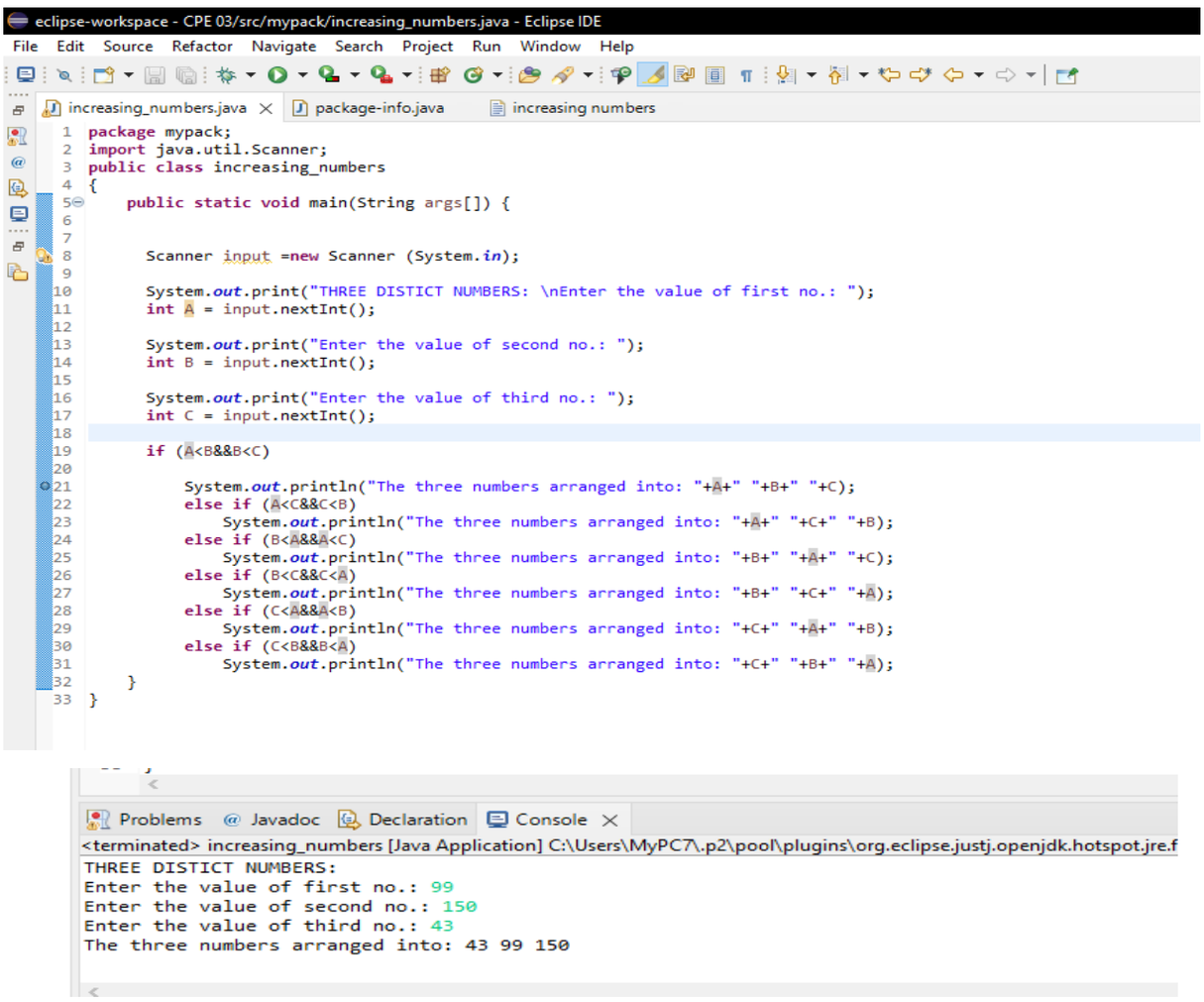
```
PREFERRED CONVERSION:
1. kpl to mpg
2. mpg to kpl
Enter your choice: 2
Enter kilometr per liter value: 10
The equivalent kilometers per litre is: 4.250990752972259 mpg
```

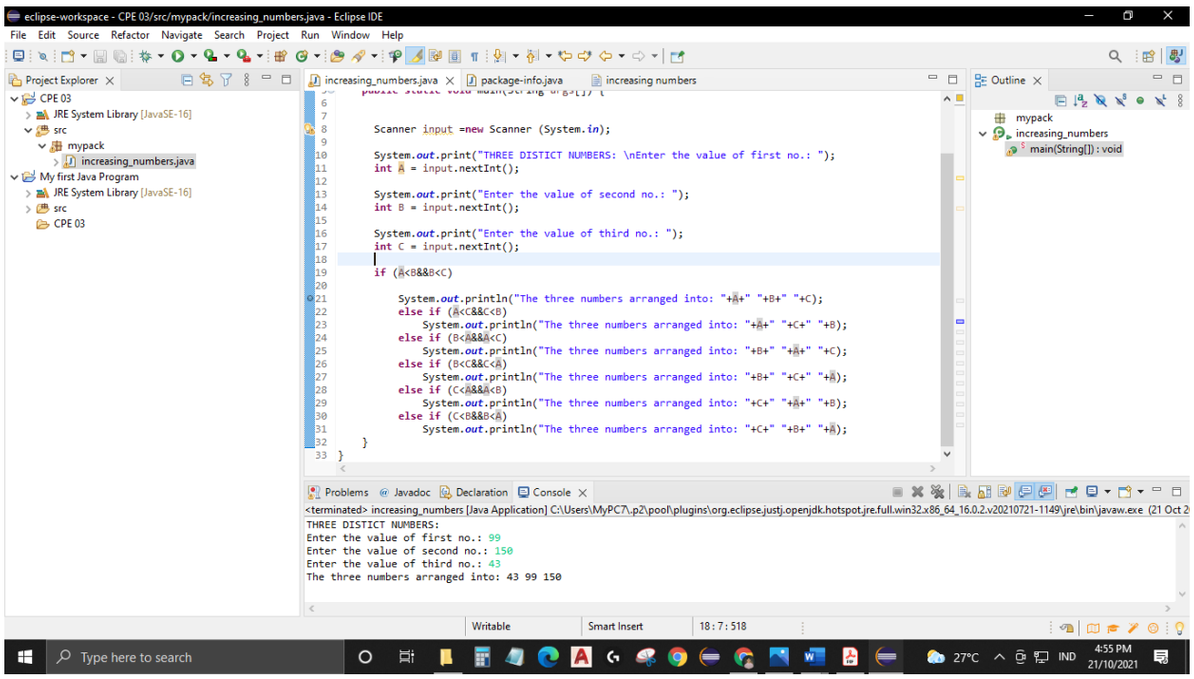
2. Write a program that will read any three distinct number and print them in increasing order.

Write your design output here:

```
THREE DISTICT NUMBERS:
Enter the value of first no.: 99
Enter the value of second no.: 150
Enter the value of third no.: 43
The three numbers arranged into: 43 99 150
```

Answer program:




eclipse-workspace - CPE 03/src/mypack/increasing_numbers.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
CPE 03
JRE System Library [JavaSE-16]
src
mypack
increasing_numbers.java
My first Java Program
JRE System Library [JavaSE-16]
src
CPE 03
increasing_numbers.java
package-info.java
increasing numbers
Scanner input =new Scanner (System.in);
System.out.print("THREE DISTICT NUMBERS: \nEnter the value of first no.: ");
int A = input.nextInt();
System.out.print("Enter the value of second no.: ");
int B = input.nextInt();
System.out.print("Enter the value of third no.: ");
int C = input.nextInt();
if (A<B&&B<C)
System.out.println("The three numbers arranged into: "+A+" "+B+" "+C);
else if (A<C&&C<B)
System.out.println("The three numbers arranged into: "+A+" "+C+" "+B);
else if (B<A&&A<C)
System.out.println("The three numbers arranged into: "+B+" "+A+" "+C);
else if (B<C&&C<A)
System.out.println("The three numbers arranged into: "+B+" "+C+" "+A);
else if (C<A&&A<B)
System.out.println("The three numbers arranged into: "+C+" "+A+" "+B);
else if (C<B&&B<A)
System.out.println("The three numbers arranged into: "+C+" "+B+" "+A);
Outline
mypack
increasing_numbers
main(String[]) : void
Problems Javadoc Declaration Console
<terminated> increasing_numbers [Java Application] C:\Users\MyPC7\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\jre\bin\javaw.exe (21 Oct 2
THREE DISTICT NUMBERS:
Enter the value of first no.: 99
Enter the value of second no.: 150
Enter the value of third no.: 43
The three numbers arranged into: 43 99 150
Writable
Smart Insert
18 : 7 : 518
Type here to search
27°C
IND
4:55 PM
21/10/2021