```
Dt: 10/8/2023
faq:
define "import" statement?
 =>"import" is used to make class or Interface available from one package to
another package
Types of importing procsses:
 =>Importing process in Java can be done in three ways:
   (a)Using "package name.Class name/Interface name;
   (b)Using "package_name.*;"
   (c)Using "Fully Qualified names"
(a)Using "package_name.Class_name/Interface_name;"
  =>In this importing process the specified class_name or Interface_name is
available from one package to another package.
  =>This importing process is also known as "Explicit Importing Process".
Ex:
import java.util.Scanner;
import p1.EmpSalary;
Note:
 =>This importing process is used when we want to make one class or Interface
```

available from one package to another package

```
(b)Using "package_name.*;"
 =>In this importing process all the Class and Interfaces available from one
package to another package.
 =>This importing process is also known as "Implicit Importing proces
Ex:
import java.util.*;
import p1.*;
Note:
 =>This importing process is used when we want to make all classes and
Interfaces
available from one package to another package
(c)Using "Fully Qualified names":
 =>The process of declaring "classes and Interfaces" with package names part
of
Programming code are known as "Fully Qualified names".
EX:
java.util.Scanner s = new java.util.Scanner(System.in);
```

```
p1.EmpSalary ob = new p1.EmpSalary();
Assignment-1:
Convert DemoMethods5.java program into packages
ProjectName: Comparision_App
packages,
p1 : GreaterValue.java
p2 : SmallerValue.java
p3: DemoMethods5.java(MainClass)
Assignment-2:
Convert StuMainClass.java program into packages
ProjectName: Student_App
packages,
p1 : StudentResult.java
p1 : Percentage.java
 p2 : StuMainClass.java(MainClass)
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Program-1(Solution)
```

Define a method which returns the 1 if the given number is even, in other case

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return 0
Name of method: isEven()
// which accepts an integer value as argument and
 return 1 if the given number is even, else retrun 0.
Argument: int
Return type: an integer value
Example, if x = 22, return 1. if x = 35, return 0
ProjectName : Assignment1_Program_1
packages,
p1 : Test.java
package p1;
public class Test
   public int isEven(in
          if (n%2 =
                return 0;
}
p2 : Program1.java(MainClass)
```

package p2;

```
import java.util.Scanner;
import p1.Test;
public class Program1 {
      public static void main(String[] args) {
   Scanner s = new Scanner(System.in);
   System.out.println("Enter the value:");
   int n = s.nextInt();
   Test ob = new Test();
   int res = ob.isEven(n);
   System.out.println("Result:"+res);
      }
Program-2(Solution)
Define a method which returns the greatest number among two numbers.
Write the method with the following specifications:
Name of method: getGreatest()
 // which accepts two integer values as argument and return the greatest
value.
Arguments: two argument of type integer
```

Return type: an integer value

Specifications: The value returned by the method getGreatest() is determined by the

following rules:

If any of the given numbers are negative, return -1.

If any of the given numbers are zero, return -2.

If the given numbers are positive, return the greatest.

```
ProjectName: Assignment1_Program_2
packages,
p1 : Test.java
package p1;
public class Test
{
   public int getGreatest(int x,int y)
              if(x==0 \mid \mid y==0)
              return -2;
             if(x>y)
                  return x;
             else
```

```
return y;
           }
}
p2 : Program2.java(MainClass)
package p2;
import java.util.Scanner;
import p1.Test;
public class Program2 {
      public static void main(String[] args);
    Scanner s = new Scanner(System.in);
    System.out.println("Enter the value-1:");
    int v1 = s.nextInt();
    System.out.println("Enter the value-2:");
    int v2 = s.nextInt();
    Test ob = new Test();
    int res = ob.getGreatest(v1, v2);
    System.out.println("Result:"+res);
      }
```

}

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## **Program-3:**

Define a method which returns the least number among two numbers.

Write the method with the following specifications:

Name of method: getLeastNum()

// which accepts two integer values as argument and return the least value.

Arguments: two argument of type integer

Return type: an integer value

Specifications: The value returned by the method getLeastNum() is determined by the following rules:

If any of the given numbers are negative, return -1.

If any of the given numbers are zero, return -2.

If the given numbers are positive, return the least number.

```
ProjectName : Assignment1_Program_3

packages,

p1 : Test.java

package p1;
public class Test
{
    public int getLeastNum(int x,int y)
    {
        if (x<0 || y<0)
        {
            return -1;
        }
}</pre>
```

```
else if(x==0 || y==0)
                return -2;
          else
          {
                if (x<y)
                      return x;
                else
                {
                      return y;
          }
    }
}
p2: Program3.java(MainClass)
package p2;
import java.util.Scanner;
import p1.Test;
public class Program3 {
     public static void main(String[] args) {
   Scanner s = new Scanner(System.in);
    System.out.println("Enter the value-1:");
    int v1 = s.nextInt();
    System.out.println("Enter the value-2:");
    int v2 = s.nextInt();
```

```
Test ob = new Test();
    int res = ob.getLeastNum(v1, v2);
    System.out.println("Result:"+res);
}
_____
=======
Program-4:(Solution)
Define a method which returns the number it if it is an even number,
if the number is odd then return the next multiple of 10.
Write the method with the following specifications:
Name of method: oddRounder()
// which accepts an integer value as argument and return the same value
if it is an even number, if the value is odd then return the next multiple of 10.
Arguments: one argument of type integer
Return Type: an integer value
Example if x = 24 then return 24, if x = 25 then return 30.
Specifications: The value returned by the method oddRounder() is determined by
the following rules:
If any of the given number is negative, return -1.
If any of the given number is zero, return -2.
```

If the given number is even, return the same number.

If the given number is odd, return the next multiple of 10.

```
ProjectName : Assignment1_Program_4
packages,
p1 : Test.java
package p1;
public class Test
   public int oddRounder(int n)
        if (n<0)
             return -1;
        else if(n==0)
             return -2
        else if (n%2
             return
             return (q+1) *10;
}
```

p2 : Program4.java(MainClass)

package p2;

```
import java.util.Scanner;
import p1.Test;
public class Program4 {
      public static void main(String[] args) {
   Scanner s = new Scanner(System.in);
   System.out.println("Enter the value:");
   int n = s.nextInt();
   Test ob = new Test();
   int res = ob.oddRounder(n);
   System.out.println("Result:"+res);
      }
}
```