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COP ASSIGNMENT 1

Q1.wap to demonstrate ternary operator .define a variable marks .ask its value from user and using ternary operator check if marks > 40 store "Pass" in result variable else store "Fail"

```
Question1.java x Question2.java x
1 package assignment1;
2 import java.util.Scanner; //In case number is positive store "Positive number" else store negative number to Result variable
3 //In case number is positive store "Positive number" else store negative number to Result variable
4 import java.util.*;
5 public class Question2 {
6
7     public static void main(String[] args) {
8         Scanner s = new Scanner(System.in);
9         System.out.println("Enter The integer");
10        int n = s.nextInt();
11        String Result = (n>=0)?"Positive":"Negative";
12        System.out.println(" Your Number Is "+n+" & Number is "+Result);
13    }
14 }
15 }
16 }
```

```
Problems @ Javadoc Declaration Console x
<terminated> Question1 [Java Application] C:\Users\Rushi\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_
Enter The Marks
34
Your Mark Is 34 & You Are Fail In Exam
```

```
Problems @ Javadoc Declaration Console x
<terminated> Question2 [Java Application] C:\Users\Rushi\p2\pool\plugins\org.eclipse
Enter The integer
-20
Your Number Is -20 & Number is Negative
```

Q 2 using ternary check if number entered by user is positive or negative .

In case number is positive store "Positive number" else store negative number to Result variable

```
Question1.java Question2.java × Question3.java Question4.java Question9.java Question
1 package assignment1;
2 // using ternary check if number entered by user is positive or negative .
4 import java.util.*;
5 public class Question2 {
6
7     public static void main(String[] args) {
8         Scanner s = new Scanner(System.in);
9         System.out.println("Enter The integer");
10        int n = s.nextInt();
11        String Result = (n>=0)?"Positive":"Negative";
12        System.out.println(" Your Number Is "+n+" & Number is "+Result);
13    }
14
15 }
16
```

```
Problems @ Javadoc Declaration Console ×
<terminated> Question2 [Java Application] C:\Users\Rushi\p2\pool\plugins\org.eclipse.justj
Enter The integer
10
| Your Number Is 10 & Number is Positive
```

```
Problems @ Javadoc Declaration Console ×
<terminated> Question2 [Java Application] C:\Users\Rushi\p2\poc
Enter The integer
-8
| Your Number Is -8 & Number is Negative
```

Q 3 WAP to ask name ,age and salary of an employee and print on console.

```
Question1.java  Question2.java  Question3.java ×  Question4.java  Question9.java  Questi
1 package assignment1;
2 //WAP to ask name ,age and salary of an employee and print on console.
3 import java.util.*;
4 public class Question3 {
5
6     public static void main(String[] args) {
7         Scanner s= new Scanner(System.in);
8         System.out.println("Enter The Name");
9         String Name = s.nextLine();
10        System.out.println("Enter The Age");
11        int Age= s.nextInt();
12        System.out.println("Enter Your Salary");
13        Float Salary= s.nextFloat();
14
15        System.out.println(" Input Name= "+Name);
16        System.out.println(" Input Age= "+Age);
17        System.out.println(" Input Salary is= "+Salary);
18
19    }
20
21 }
```

```
Problems  JavaDoc  Declaration  Console ^
<terminated> Question3 [Java Application] C:\Users\Rushi\p2\pool\plugins\org.eclipse.justj.o
Enter The Name
Hrishikesh
Enter The Age
24
Enter Your Salary
25000.00
Input Name= Hrishikesh
Input Age= 24
Input Salary is= 25000.0
```

Q 4 wap that ask two numbers from user and print greater number among two

```
1 package assignment1;  
2 //wap that ask two numbers from user and print greater number among two  
3 import java.util.*;  
4 public class Question4 {  
5  
6     public static void main(String[] args) {  
7         Scanner s = new Scanner(System.in);  
8         System.out.println("Enter First Number");  
9         int a= s.nextInt();  
10        System.out.println("Enter Second Number");  
11        int b=s.nextInt();  
12        if(a>b)  
13            System.out.println(a+" Is Grater Than "+b);  
14        else if(b>a)  
15            System.out.println(b+" Is Grater Than "+a);  
16        else  
17            System.out.println(a+ " Both Nos Are Equal "+b);  
18    }  
19 }  
20 }
```

```
<terminated> Question4 [Java Application] C:\Users\Rushi\p2\pool\plugins\org.eclipse.justj.  
Enter First Number  
10  
Enter Second Number  
20  
20 Is Grater Than 10
```

Problems @ Javadoc Declaration Console ×

```
<terminated> Question4 [Java Application] C:\Users\Rushi\p2\pool\plugins\org.eclipse.justj.op  
Enter First Number  
25  
Enter Second Number  
25  
25 Both Nos Are Equal 25
```

Q 5 wap to ask product name and price of product from user and calculate discount i.e if price > 2000 then discount is 10 percent of price else discount is 7 % of price

```
1 package assignment1;  
2 // wap to ask product name and price of product from user and calculate discount i.e   
1 import java.util.*;  
5 public class Question5 {  
5  
7     public static void main(String[] args) {  
3         Scanner s = new Scanner(System.in);  
3         System.out.println("Enter The Product Name");  
0         String Product= s.nextLine();  
1         System.out.println("Enter The Product Price");  
2         int price = s.nextInt();  
3         if (price>2000)  
1             System.out.println("You Will Get 10% discount");  
5         else  
5             System.out.println("You Will Get 10% discount");  
7         double discount;  
3         if(price>2000)  
3             discount=price*0.1;  
0         else {  
1             discount=price*0.07;  
2         }  
3         double discount_is= price-discount;  
1         System.out.println("Product:"+Product);  
5         System.out.println("Price:"+price);  
5         System.out.println("Discount:"+discount);  
7         System.out.println("Discounted Price:"+discount_is);  
2     }
```

<terminated> Question5 [Java Application]

Enter The Product Name

mobile phone

Enter The Product Price

25000

You Will Get 10% discount

Product:mobile phone

Price:25000

Discount:2500.0

Discounted Price:22500.0

<terminated> Question5 [Java Application].exe

Enter The Product Name

Fruits

Enter The Product Price

300

You Will Get 10% discount

Product:Fruits

Price:300

Discount:21.000000000000004

Discounted Price:279.0

Q 6 Wap to swap two numbers

Question2.java Question3.java Question4.java Question5.java Question6.java × Question5

```
1 package assignment1;
2 // Wap to swap two numbers
3 import java.util.*;
4 public class Question6 {
5
6     public static void main(String[] args) {
7         Scanner s= new Scanner(System.in);
8         int a;
9         int b;
10        int c;
11        System.out.println("Enter the First no");
12        a=s.nextInt();
13        System.out.println("Enter the Second no");
14        b=s.nextInt();
15        System.out.println("Nos Before Swapping="+a+"\n"+" Second no="+b);
16        c=a;
17        a=b;
18        b=c;
19        System.out.println("Nos Afther Swapping="+a+"\n"+" Second no="+b);
20
21    }
```

Problems Javadoc Declaration Console ×

<terminated> Question6 [Java Application] C:\Users\Rushi\p2\pool\plugins\org.eclipse.j

```
Enter the First no
10
Enter the Second no
20
Nos Before Swapping=10
Second no=20
Nos Afther Swapping=20
Second no10
```

Q 7 How to swap two numbers without using a third variable?

Question2.java Question3.java Question4.java Question5.java *Question6.java

```
package assignment1;
//How to swap two numbers without using a third variable?
import java.util.*;
public class Question7 {

    public static void main(String[] args) {
        Scanner s= new Scanner(System.in);
        System.out.println("Enter First No:");
        int a=s.nextInt();
        System.out.println("Enter Second No:");
        int b=s.nextInt();
        System.out.println(" Before Swapping=| "+a+"\n"+b);
        a=a+b;
        b=a-b;
        a=a-b;
        System.out.println(" Afther Swapping =" +a+"\n"+b);
    }
}
```

Problems @ Javadoc Declaration Console ×

<terminated> Question7 [Java Application] C:\Users\Rushi\.p2\pool\plugins

Enter First No:
20
Enter Second No:
30
| Before Swapping= 20
30
Afther Swapping =30
20

Q 8 wap to check is number is evenor odd.

Question3.java Question4.java Question5.java Question6.java Question7.java

```
1 package assignment1;
2 //wap to check is number is evenor odd.
3 import java.util.*;
4 public class Question8 {
5
6     public static void main(String[] args) {
7         Scanner s=new Scanner(System.in);
8         System.out.println("Enter The No");
9         int a=s.nextInt();
10        if(a%2==0)
11            System.out.println("The No Is Even");
12        else
13            System.out.println("The No Is Odd");
14    }
15
```

Problems @ Javadoc Declaration C

<terminated> Question8 [Java Application] C:\l

Enter The No

50

The No Is Even

Problems @ Javadoc Declaration

<terminated> Question8 [Java Applica

Enter The No

33

The No Is Odd

Q 9 A school has following rules for grading system:

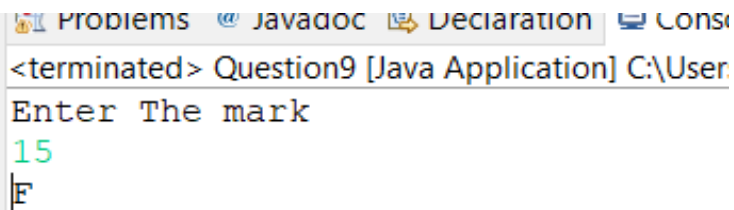
- a. Below 25 - F
- b. 25 to 45 - E
- c. 45 to 50 - D
- d. 50 to 60 - C
- e. 60 to 80 - B
- f. Above 80 - A

Ask user to enter marks and print the corresponding grade

```
import java.util.*;
public class Question9 {

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter The mark");
        int mark=sc.nextInt();
        if(mark<100) {
            if (mark<25) {
                System.out.println("F");
            }else if (mark>=26&&mark<=45)
            {System.out.println("E");
            }
            else if (mark>=46&&mark<=50) {
                System.out.println("D");
            }
            else if (mark>=51&& mark<=60) {
                System.out.println("C");
            }
            else if (mark>=61&&mark<=80) { System.out.println("B");
            }
            else if (mark>=81) { System.out.println("A");}
            else { System.out.println("invalid mark");}}
        }
    }
}
```

CASE1



```
<terminated> Question9 [Java Application] C:\User
Enter The mark
15
F
```

CASE2

```
Problems Javadoc Declaration  
<terminated> Question9 [Java Application] C  
Enter The mark  
49  
p
```

CASE3

```
Problems @ Javadoc Declaration Console ×  
<terminated> Question9 [Java Application] C:\Users\Rushi\.p2\pool\  
Enter The mark  
55  
c
```

CASE4

```
<terminated> Question9 [Java Appl  
Enter The mark  
70  
B
```

CASE5

```
<terminated> Question9 [Java A  
Enter The mark  
85  
A
```

Q 10 wap to check greater number among three numbers

Question1.java Question2.java Question3.java Question4.java

```
1 package assignment1;  
2 //wap to check greater number among three numbers  
3 import java.util.*;  
4 public class Question10 {  
5  
6     public static void main(String[] args) {  
7         Scanner s=new Scanner(System.in);  
8         System.out.println("Enter Three Nos");  
9         int a=s.nextInt();  
10        int b=s.nextInt();  
11        int c=s.nextInt();  
12  
13        int max= (a>b)?(a>c?a:c):(b>c?a:c);  
14        System.out.println("Maximum No is "+max);  
15  
16    }  
17
```

Problems @ Javadoc Declaration Console ×

<terminated> Question10 [Java Application] C:\Users\Rushi\.p2\j
Enter Three Nos
20
30
40
Maximum No is =40