0 1

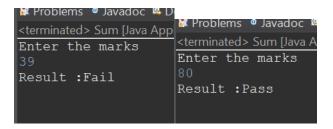
wap to demonstrate ternary operator .define a variable marks .ask its value from user and using ternary operator check if marks > 40 store "Pass" in result varible else store "Fail"

Sol:

```
package project1;
import java.util.Scanner;
public class Sum {

    public static void main(String[] args) {
        int marks;
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the marks");
        marks = s.nextInt();
        String result = 40>marks ? "Fail" : "Pass";
        System.out.println("Result :" + result);
    }
}
```

Output:



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

Sol:

```
package project1;
import java.util.Scanner;
public class Number {

    public static void main(String[] args) {
        int num;
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the number");
        num = s.nextInt();
        String result = 0<num ? "Positive number" : "Negative number";
        System.out.println("The number is :" + result);
    }
}</pre>
```

```
Enter the number

-4

The number is :Negative number

The number is :Positive number
```

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

Sol:

```
package project1;
import java.util.Scanner;
public class Employee {

    public static void main(String[] args) {
        String name;
        int age;
        double sal;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter your name : ");
        name = s.nextLine();
        System.out.print("Enter your age : ");
        age = s.nextInt();
        System.out.print("Enter your salary : ");
        sal = s.nextDouble();
        System.out.println("The details of employee :");
        System.out.println("Name : " + name);
        System.out.println("Age : " + age);
        System.out.println("Salary : " + sal);
    }
}
```

Output:

```
Enter your name: Shailesh Patil
Enter your age: 27
Enter your salary: 27000
The details of employee:
Name: Shailesh Patil
Age: 27
Salary: 27000.0
```

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

Sol:

```
package project1;
import java.util.Scanner;
public class Greatest_num {

    public static void main(String[] args) {
        double a,b,c;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter the first number =");
        a = s.nextDouble();
        System.out.print("Enter the second number =");
        b = s.nextDouble();
        c = a>b ? a : b;
        System.out.println("Greatest number is " + c);
}
```

```
Enter the first number =246
Enter the second number =5465
Greatest number is 5465.0
```

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

Sol:

```
package project1;
import java.util.Scanner;
public class Discount {

    public static void main(String[] args) {
        String name;
        double price, disc;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter name of the product : ");
        name = s.nextLine();
        System.out.print("Enter the price of the product : ");
        price = s.nextDouble();
        disc = price>2000 ? 0.10*price : 0.07*price;
        System.out.println("Product : " + name);
        System.out.println("Price : " + price);
        System.out.println("Discount for this product : " + disc);
}
```

Output:

```
Enter name of the product : erephones
Enter the price of the product : 2400
Product : erephones
Price : 2400.0
Discount for this product : 240.0

Enter name of the product : back cover
Enter the price of the product : 650
Product : back cover
Price : 650.0
Discount for this product : 45.50000000000001
```

Q 6 Wap to swap two numbers

Sol:

```
package project1;
import java.util.Scanner;
public class Swaping {
    public static void main(String[] args) {
        int a,b;
        Scanner s = new Scanner(System.in);
        System.out.println("Enter two numbers a & b : ");
```

```
a = s.nextInt();
b = s.nextInt();
a=a+b;
b=a-b;
a=a-b;
System.out.println("Numbers after swaping : " + a +" " + b);
}
```

Output:

```
Enter two numbers a & b:
100
200
Numbers after swaping: 200 100
```

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

Sol:

```
package project1;
import java.util.Scanner;
public class Swaping {
    public static void main(String[] args) {
        int a,b;
        Scanner s = new Scanner(System.in);
        System.out.println("Enter two numbers a & b : ");
        a = s.nextInt();
        b = s.nextInt();
        a = a+b;
        b = a-b;
        a = a-b;
        System.out.println("First number a is " + a +" and 2nd number b is " + b);
    }
}
```

Output:

```
Enter two numbers a & b :
500
700
First number a is 700 and 2nd number b is 500
```

Q 8 wap to check is number is even or odd.

Sol:

```
package project1;
import java.util.Scanner;
public class Even_odd {
    public static void main(String[] args) {
        int a;
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the number : ");
        a = s.nextInt();
```

Output:

```
Enter the number:

46
The number is even

Enter the number:

45
The number 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

Sol:

```
Enter your marks =

45

Your grade is D

Enter your marks =

82

Your grade is A

Enter your marks =

124

You have entered invalid marks
```

Q 10 wap to check greater number among three numbers

Sol:

```
package project1;
import java.util.Scanner;
public class Greatest {

    public static void main(String[] args) {
        double a,b,c,d;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter the first number =");
        a = s.nextDouble();
        System.out.print("Enter the second number =");
        b = s.nextDouble();
        System.out.print("Enter the third number =");
        c = s.nextDouble();
        d = a>b ? (a>c?a:c) : (b>c?b:c);
        System.out.println("Greatest number is " + d);
}
```

```
Enter the first number =456
Enter the second number =56
Enter the third number =565
Greatest number is 565.0

Enter the first number =124.12
Enter the second number =364.15
Enter the third number =364.84
Greatest number is 364.84
Greatest number is 364.84
```