

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" .

Code:

```
package assignment1;
import java.util.*;

public class Q1 {
    public static void main(String[] args) {
        Scanner sc =new Scanner(System.in);
        System.out.println("Enter Marks:");
        int marks= sc.nextInt();
        String s= marks>40?"Pass":"Fail";
        System.out.println("Student is "+s);
    }
}
```

Output:

```
<terminated> Q1 [Java Application] C:\Users\Abhi\p2\pool\plugins\org.eclipse.jus
Enter Marks:
40
Student is Fail
```

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.

Code:

```
package assignment1;
import java.util.*;

public class Q2 {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter a Number:");
        int a= sc.nextInt();
        String s=a>0?"Positive number":"Negative number";
        System.out.println(s);
    }
}
```

Output:

```
<terminated> Q2 [Java Application] C:\Users\Abhi\p2\pool\plugins\org.eclipse.jst
Enter a Number:
-4
Negative number
```

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

Code:

```
package assignment1;
import java.util.*;

public class Q3 {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.print("Enter name:");
        String name= sc.nextLine();
        System.out.print("Enter Age:");
        int age= sc.nextInt();
        System.out.print("Enter Salary:");
        float sal= sc.nextFloat();
        System.out.println("name:"+name);
        System.out.println("Age:"+age);
        System.out.println("Salary:"+sal);
    }
}
```

Output:

```
<terminated> Q3 [Java Application] C:\Users\Abhi\p2\j
Enter name:Sham Sharma
Enter Age:26
Enter Salary:60000
name:Sham Sharma
Age:26
Salary:60000.0
<
```

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

Code:

```
package assignment1;
import java.util.*;
public class Greaternum {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.print("Enter First Number:");
        int a= sc.nextInt();
        System.out.print("Enter Second Number:");
        int b= sc.nextInt();

        if(a>b)
            System.out.println("Number "+a+" is greater");
        else
            System.out.println("Number "+b+" is greater");
    }
}
```

Output:

```
<terminated> Greaternum [Java Application] C:\Users\Abhi\.p2\pool\plugins
Enter First Number:6
Enter Second Number:8
Number 8 is greater
```

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.

Code:

```
package assignment1;  
import java.util.*;  
public class Q5 {  
    public static void main(String[] args) {  
        Scanner sc= new Scanner(System.in);  
        System.out.print("Enter Product Name:");  
        String product= sc.nextLine();  
        System.out.print("Enter Product Price:");  
        int price = sc.nextInt();  
        int disc=0;  
        if(price>2000)  
            disc= (price*10)/100;  
  
        else  
            disc= (price*7)/100;  
  
        System.out.println("Total Discount is:"+disc);  
        int discprice= price - disc;  
        System.out.println("Discounted Price is:"+ discprice );  
    }  
}
```

Output:

```
<terminated> Q5 [Java Application] C:\Users\Abhi\p2\pool\plugins\org.eclipse.justj.op  
Enter Product Name: Dell Monitor  
Enter Product Price:5000  
Total Discount is:500  
Discounted Price is:4500
```

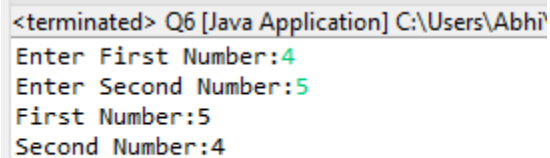
Q 6 Wap to swap two numbers.

Code:

```
package assignment1;
import java.util.*;

public class Q6 {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.print("Enter First Number:");
        int a = sc.nextInt();
        System.out.print("Enter Second Number:");
        int b= sc.nextInt();
        int temp=0;
        temp= a;
        a=b;
        b=temp;
        System.out.println("First Number:"+a);
        System.out.println("Second Number:"+b);
    }
}
```

Output:



```
<terminated> Q6 [Java Application] C:\Users\Abhi
Enter First Number:4
Enter Second Number:5
First Number:5
Second Number:4
```

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

Code:

```
package assignment1;
import java.util.*;

public class Q7 {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.print("Enter First Number:");
        int a = sc.nextInt();
        System.out.print("Enter Second Number:");
        int b= sc.nextInt();
        a= a+b;
        b=a-b;
        a=a-b;
        System.out.println("First Number:"+a);
        System.out.println("Second Number:"+b);
    }
}
```

Output:

```
Enter First Number:10
Enter Second Number:11
First Number:11
Second Number:10
```

Q 8 wap to check is number is evenor odd.

Code:

```
package assignment1;
import java.util.*;

public class Q8 {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter Number: ");
        int num= sc.nextInt();
        if(num%2==0) {
            System.out.println("Number is Even.");
        }
        else {
            System.out.println("Number is Odd.");
        }
    }
}
```

Output:

```
<terminated> Q8 [Java Application] C:\Us
Enter Number:
6
Number is Even.
```


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 .

Code:

```
package assignment1;
import java.util.*;

public class Q9 {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter Marks of sub1:");
        int s1= sc.nextInt();
        System.out.println("Enter Marks of sub2:");
        int s2 = sc.nextInt();
        System.out.println("Enter Marks of sub3:");
        int s3 = sc.nextInt();
        System.out.println("Enter Marks of sub4:");
        int s4= sc.nextInt();
        int per= ((s1+s2+s3+s4)*100)/400;
        if(per<25)
            System.out.println("Percentage are:"+per+" Grade:'F'");
        else if(per>25 && per<=45)
            System.out.println("Percentage are:"+per+" Grade:'E'");
        else if(per >45 && per<=50)
            System.out.println("Percentage are:"+per+" Grade:'D'");
        else if(per>50 && per<=60)
            System.out.println("Percentage are:"+per+" Grade:'C'");
        else if(per>60 && per<=80)
            System.out.println("Percentage are:"+per+" Grade:'B'");
        else if(per>80)
            System.out.println("Percentage are:"+per+" Grade:'A'");
    }
}
```

Output:

```
<terminated> Q9 [Java Application] C:\Users\Abhi\.p2\pool\
Enter Marks of sub1:
55
Enter Marks of sub2:
40
Enter Marks of sub3:
35
Enter Marks of sub4:
80
Percentage are:52 Grade:'C'
```

Q10 wap to check greater number among three numbers.

Code:

```
package assignment1;
import java.util.*;

public class Q10 {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.print("Enter First Number:");
        int a= sc.nextInt();
        System.out.print("Enter Second Number:");
        int b= sc.nextInt();
        System.out.print("Enter Third Number:");
        int c= sc.nextInt();
        if(a>b && a>c)
            System.out.println("First Number is Greater.");
        else if(b>c)
            System.out.println("Scond Number is Greater.");
        else
            System.out.println("Third Number is Greater.");
    }
}
```

Output:

```
<terminated> Q10 [Java Application] C:\Users\Abhi\.p2
Enter First Number:40
Enter Second Number:77
Enter Third Number:88
Third Number is Greater.
```