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

**import** java.util.Scanner;

**public** **class** Cheaknum {

**public** **static** **void** main(String[] args) {

**int** num;

Scanner a = **new** Scanner(System.***in***);

System.***out***.println("enter num");

num=a.nextInt();

String res= (num>0)?"positive":"negative";

System.***out***.println("res="+res);

}

}

output:-1

enter num

56

res=positive

output:-2

enter num

-67

res=negative

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

**import** java.util.\*;

**public** **class** Discount {

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("enter product name : ");

String product= sc.nextLine();

System.***out***.println("enter product price : ");

**int** price=sc.nextInt();

**int** disc=0;

**if**(price>200)

disc=(price\*10)/100;

**else**

disc=(price\*7)/100;

System.***out***.println("total disc is: "+disc);

**int** discprice=price-disc;

System.***out***.println("discount price is: "+discprice);

}

}

**OUTPUT:-1**

enter product name

tea

enter product prise

80

total disc is:=5

discount price is:75

**OUTPUT:-2**

enter product name :

coffee

enter product price :

250

total disc is: 25

discount price is: 225

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

**import** java.util.Scanner;

**public** **class** Employee {

**public** **static** **void** main(String[] args) {

**int** age;

**float** salary;

String name;

Scanner d = **new** Scanner(System.***in***);

System.***out***.println("enter name=");

name=d.next();

System.***out***.println("enter a salaryt=");

salary=d.nextFloat();

System.***out***.println("enter a age=");

age= d.nextInt();

}

}

OUTPUT:-

enter name=

anshu

enter a salary=

80000

enter a age=

31

Q 8 wap to check is number is evenor odd.

**import** java.util.\*;

**public** **class** evenodd {

**public** **static** **void** main(String[] args) {

Scanner s=**new** Scanner(System.***in***);

System.***out***.println("enter value num1");

**int** num=s.nextInt();

**if**(num%2==0)

{

System.***out***.println("even");

}

System.***out***.println("odd");

}

}

OUTPUT:-1

enter value num1

7

Odd

OUTPUT:-2

enter value num1

6

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

**import** java.util.\*;

**public** **class** Grading {

**public** **static** **void** main(String[] args) {

**int** m;

Scanner s=**new** Scanner(System.***in***);

System.***out***.println("enter the num=");

m=s.nextInt();

**if**(m<25)

{

System.***out***.println("grade F");

}

**else** **if**(m>=25 && m<45)

System.***out***.println("grade E");

**else** **if**(m>=45 && m<50)

System.***out***.println("Grade D");

**else** **if**(m>=50 && m<60)

System.***out***.println("Grade C");

**else** **if**(m>=60 && m<80)

System.***out***.println("Grade B");

**else** **if**(m>=80)

System.***out***.println("Grade A");

}

}

Output :-1

enter the num=

99

Grade A

Q  10 wap to check greater number among three numbers.

**import** java.util.\*;

**public** **class** Greater {

**public** **static** **void** main(String[] args) {

**int** n1,n2,n3;

Scanner s=**new** Scanner(System.***in***);

System.***out***.print("enter the num1=");

n1=s.nextInt();

System.***out***.print("enter the num2=");

n2=s.nextInt();

System.***out***.print("enter the num3=");

n3=s.nextInt();

**if**(n1>=n2 && n1>=n3)

{

System.***out***.println("large num1");

}

**if**(n2>=n1 && n2>=n3)

{

System.***out***.println("large num2");

}

**if**(n3>=n1 && n3>=n2)

{

System.***out***.println("large num3");

}

}}

Output:-

enter the num1=89

enter the num2=45

enter the num3=97

large num3

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

**import** java.util.Scanner;

**public** **class** Greaternum {

**public** **static** **void** main(String[] args) {

**int** a,b;

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("enter 1st num");

a=sc.nextInt();

System.***out***.print("enter 2nd num=");

b=sc.nextInt();

**if**(a>b)

System.***out***.println("second no is smaller");

**else**

System.***out***.println("first no is smaller");

}

}

Output:-1

enter 1st num

89

enter 2nd num=65

second no is smaller

Q 6   Wap to swap two numbers.

**import** java.util.\*;

**public** **class** Swapnum {

**public** **static** **void** main(String[] args) {

**int** a,b,d;

Scanner c=**new** Scanner(System.***in***);

System.***out***.println("enter the value for a=");

a=c.nextInt();

System.***out***.println("enter the value for b=");

b=c.nextInt();

d=a;

a=b;

b=d;

System.***out***.println("after swapping a="+a+" and b="+b);

}

}

Output:-1

enter the value for a=

5

enter the value for b=

10

after swapping a=10 and b=5

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

**import** java.util.\*;

**public** **class** Swapwitout {

**public** **static** **void** main(String[] args) {

**int** num1,num2;

Scanner s=**new** Scanner(System.***in***);

System.***out***.println("enter value num1");

num1=s.nextInt();

System.***out***.println("ener the num2");

num2=s.nextInt();

num1=num1+num2;

num2=num1-num2;

num1=num1-num2;

System.***out***.println("first num after swaping is"+num1);

System.***out***.println("second num after swaping is"+num2);

}

}

Output:-

enter value num1

2

ener the num2

7

first num after swaping is7

second num after swaping is2

Q 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"

**import** java.util.Scanner;

**public** **class** Ternary\_res {

**public** **static** **void** main(String[] args) {

**int** mark;

Scanner a=**new** Scanner(System.***in***);

System.***out***.println("enter marks=");

mark=a.nextInt();

String res =(mark>40)? "pass":"fail";

System.***out***.println("result="+res);

}

}

Output:-

enter marks=

45

result=pass