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Java

17. Write a Program to read the number until -1 is encountered. Find the average of positive numbers and negative number entered by user

Enter -1 to exit

Enter the number: 7

Enter the number: -2

Enter the number: 9

Enter the number: -8

Enter the number: -6

Enter the number: -4

Enter the number: 10

Enter the number: -1

Sample output:

```
int i=0, j=0;
```

```
int n=0;
```

```
int s1=0, s2=0;
```

```
int possum=0, negsum=0;
```



```
while (n != -1)
```

```
{
```

```
    n = input.nextInt();
```

```
    if (n == -1)
```

```
        break;
```

```
    if (n > 0) =
```

```
    {
```

```
        i++;
```

```
        S1 = S1 + n;
```

```
    }
```

```
else
```

```
{
```

```
    j++;
```

```
    S2 = S2 + n;
```

```
}
```

```
}
```

2) write a program to calculate the factorial of number using recursive

```
Scanner input = new Scanner(System.in);
```

```
int n = input.nextInt();
```



3). write a program to calculate the factorial of number using recursive

Sample Input & Output:

Enter the value of n: 6

Sample Input & Output

The factorial of 6 is: 720

```
Scanner input = new Scanner(System.in);
```

```
int n = input.nextInt();
```

```
int fact = 1;
```

```
for (int i = 1; i <= n; i++)
```

```
{
```

```
    fact = fact * i;
```

```
}
```

```
System.out.println("The factorial of " + n
```

```
is: " + fact);
```

A).

M=4

N=5

```
int M=4;
```

```
int N=5;
```

```
for (int i=1; i<=N; i++)
```



{

System.out.print (n(i+"x"+m+"="+(1+m)));

5) Write a Program to print the below Pattern

1  
2 2

3 3 3

4 4 4 4

3 3 3

2 2

1

Scanner input = new Scanner (System.in);

int n = input.nextInt();

for (int i = 1; i <= n; i++)

{

for (int j = 1; j <= i; j++)

{

System.out.print (i);

;

System.out.println();

}

for (int j = 1; j <= i; j++)

{

System.out.print (i);

;

System.out.println();

}



6) Write a Program to find the sum of digits of N digit number (sum should be single digit)

Sample Input:

Enter N Value: 3

Enter 3 digit number: 143

Sample Output:

Sum of 3 digit number: 8

```
Scanner Input = new Scanner (System.in);
```

```
int n = Input.nextInt();
```

```
int sum = 0;
```

```
while (n != 0)
```

```
{
```

```
    int rem = n % 10;
```

```
    sum = sum + rem;
```

```
    n = n / 10;
```

```
}
```

```
System.out.println (sum);
```

7),

Enter the user name: sareetha @789

Reenter the user name: sareetha @123

Sample Output:

user name is invalid.



```
Scanner input = new Scanner (System.in);
```

```
String s1 = input.nextLine();
```

```
String s2 = input.nextLine();
```

```
if (s1 == s2)
```

```
    System.out.println ("user name valid");
```

```
else
```

```
    System.out.println ("user name invalid");
```

10) Enter you age:

7

Sample output:

You are allowed to vote after 18 years

```
Scanner input = new Scanner (System.in);
```

```
int age = input.nextInt();
```

```
if (age > 18)
```

```
    System.out.println ("you are eligible for  
vote")
```

```
else if (age <= 0)
```

```
    System.out.println ("you are allowed to vote  
after 18 (18-age)
```