

(1). Check the given number is EVEN or ODD.

Step 1: Start.

Step 2: Read a number to N.

Step 3: Divide the number by 2 and store the remainder in R.

Step 4: If R = 0 Then

Step 5: Print "N is odd"

Step 6: else Print "N is even"

Step 7: Stop.

(2) . Write a Java Program to find the Factorial of given number.

Step 1: Start.

Step 2: Read a number to N=5.

Step 3: Initialize i=1 and f= 1

Step 4: while i<=N then

f=f*i

i++

Step 5: Stop

(3). Find the Factorial of a number using Recursion

Step 1: Start.

Step 2: Read a number to N.

Step 3: call factorial(N)

Step 4: print factorial f

Step 5: stop

factorial(N)

Step 1: if N==1 or N==0 then return 1

Step 2: else f=N*factorial(N-1)

Step 3 return f

(4). Swap two numbers without using third variable approach.

Step 1: Start.

Step 2: Read a number to a and b.

Step 3 : $a=a+b$

Step 4 : $a=a+b$

Step 5 : $b=a-b$

Step 6 : $a=a-b$

step 7: print a and b.

Step 8: Stop.

(5). How to check the given number is Positive or Negative in Java?

Step 1: Start.

Step 2: Read a number to N.

Step 3: if $N > 0$ then print number is positive .

Step 4 : else number is negative

Step 5: Stop.

(6). Write a Java Program to find whether given number is Leap year or NOT?

Step 1: Start.

Step 2: Read a number to N.

Step 3: Divide the number by 4 and store the remainder in R.

Step 4: If $R = 0$.

Step 5: Print "N is leap year"

Step 6: Print "N is non leap year"

Step 7: Stop.

(7). Write a Java Program to Print 1 To 10 Without Using Loop.

Step 1: Start.

Step 2: Read a number to N.

step 3:print 1;

step 4:print 2;

step 5:print 3;

step 6:print 4;

step 7:print 5;

step 8:print 6;

step 9:print 7;

step 10:print 8;

step 11:print 9;

step 12:print 10;

Step 13: Stop.

(8). Write a Java Program to find the smallest of 3 numbers (a,b,c)

Step 1: Start

Step 2: Read three numbers in variable a, b and c.

Step 3: If $a > b$ and $a > c$ then display "a is the greatest number"

 If $b > a$ and $b > c$ then display "b is the greatestnumber"

 else display "c is the greatestnumber"

Step 4: Stop

9. Write a Java Program to print all the Factors of the Given number.

Step 1: Start

Step 2: Read numbers in variable n.

Step 3 : for($i=1$; $i \leq n/2$; $i++$)

Step 4: then if $n \% i == 0$ print i

Step 5: else continue loop;

Step 6: Stop

10. Write a Java Program to find sum of the digits of a given number.

Step 1: Start.

Step 2: Read numbers in variable n

step 3: sum the remainder of the number

step 4: Divide the number by 10

step 5: Repeat the step 2 while number is greater than 0.

Step 6: Stop

11. Write a Java Program to find the smallest of 3 numbers (a,b,c)

Step 1: Start.

Step 2 read numbers in a, b, c.

step 3: Check if a is less than b.

step 4: If above condition is true, go to step 5, else go to step 7

step 5: Check if c is less than a.

step 6: If above condition is true, c is the smallest, else a is the smallest. Go to step 9.

step 7: Check if b is less than c.

step 8: If above condition is true, b is the smallest, else c is the smallest.

step 9: Stop.

12. How to add two numbers without using the arithmetic operators in Java?

Step 1: Start.

Step2: Read a number to a and b and i=1.

Step 3: for (i=1; i<=b; b++)

Step 4: then a++

step 5: return a.

13. Write a java program to Reverse a given number

Step 1: Start.

Step 2: Read a number to N.

step 3: initialize reverse =0.

step 4: Check whether digit>0 then go to step 5.;

step 5: reverse =reverse *10.;

step 6: reverse=reverse+digit%10.

step 7: digit =digit/10

step 8: Go to step 4step 9:print 7;

step 9: Print reverse

step 10: Stop

14. Write a Java Program to find GCD of two given numbers.

Step 1: Start.

Step 2: Read a number n1,n2,gce=1,i=1.

Step 3: Input n1 and n20.

Step 4: Repeat until i<=n1 and i<=n2

Step 5: If n1%i==0 && n2%i==0

Step 6: gcd = i

Step 7: print gcd

Step 8: stop

15. Write a java program to LCM of TWO given number.

Step 1: Initialize the positive integer variables A and B.

Step 2: Store the common multiple of A & B into the max variable.

Step 3: Validate whether the max is divisible by both variables A and B.

Step 4: If max is divisible, display max as the LCM of two numbers.

Step 5: Else, the value of max is increased, and go to step 3.

Step 6: Stop

17. Check whether the Given Number is a Palindrome or NOT.

Step 1. Start

Step 2. Initialize sum=0,temp,n and r.

Step 3. Read temp and n.

Step 4. While(n>0)

$r=n\%10$

$sum=(sum*10)+r$

$n=n/10$

Step 5. Repeat step 4 till n=0

Step 6: check if temp== sum

Step 7: if step 6 is true print number is palindrome

Step 8: else print number is not palindrome .

19. To print the following series EVEN number Series 2 4 6 8 10 12 14 16 .

Step 1: Start.

Step 2: Read a number to i=0.

Step 3. for(; i <= 17; i += 2).

step 4: Print i

step 5: stop.

20. To print the following series ODD number Series 1 3 5 7 9 11 13

Step 1: Start.

Step 2: Read a number to i=1.

Step 3. for(; i <= 15; i += 2).

step 4: Print i

step 5: stop.