first n natural numbers and their quadry bes

1. Start
2. input n
3. for i=1 to n+1 step 1
   Print (i, i * i)
4. stop

first N odd numbers.

1. Start
2. input N
3. for i=1 to n+1 step 2
   Print (i)
4. Print "Over"
5. Stop

first n even numbers

1. Start
2. input n
3. for i=2 to n+1 step 2
   Print (i)
4. Print "done"
5. Stop

sum of any n numbers.

1. Start
2. input n
3. sum = 0
4. for i=1 to n
   {
   input = "any number", n
   sum = sum + m
   }

5. Print sum
6. Stop

11. Algorithm to find the factorial of a given number.

1! == 1
2! == 2*1 == 2
3! == 3*2*1 == 6
4! == 4*3*2*1 == 24
5! == 5*4*3*2*1
5! == 5*4! == 5*4*3*2! == 5*4*3*2*1 == 120

1. Start
2. fact = 1
3. Input "factorial of which number",n
3. For i = 1 to n+1

    fact = fact * i

4. Print fact
5. Stop

n = 4   fact = 1   i = 1   fact = 1
               i = 2   fact = 2
               i = 3   fact = 6
               i = 4   fact = 24

12. Algorithm to print the multiplication table.

1 * 2 == 2
2 * 2 == 4
3 * 2 == 6
4 * 2 == 8
5 * 2 == 10
6 * 2 == 12
7 * 2 == 14
8 * 2 == 16
9 * 2 == 18
10 * 2 == 20

1. Start
2. input "Number of rows" n
3. input "multiplication table of which number", m
4. for i = 1 to n+1
     Print (i, '*', m, '=', i*m)
5. Stop

n	i		m			i*m
5	1	*	4	=	=	4
	2	*	4	=	=	8
	3	*	4	=	=	12
	4	*	4	=	=	16
	5	*	4	=	=	20

B) Algorithm to check whether a given number is prime or not.

1. Start
2. a. input "Enter a number" n
3. flag = 0
3. for i = 2 to n
     if (n % i == 0)
     {
       flag = 1
       break
     }
4. if (flag == 0):
     Prime ("Prime")
   else
     Print ("not Prime")
6. Stop.

while loop.

Another iterative statement similar to for loop is while loop

Syntax is

while (expression)

{

  Body of loop

}

next stmt

Example

For i = 1 to 10

  Print(i)

i = 1

while (i < 10)

{

  Print (i)

  i = i + 1

}

Print ("ove")