**Problem Statement:** Print factors of given number

In this problem we will find all the factors of a given number

**Example:** Ig given number is 6, then 1,2,3,6 will be printed as they are factors of 6

|  |  |
| --- | --- |
| Expected Input | Expected Output |
| 3  6  0  -23  18 | 1 3  1 2 3 6  INVALID INPUT  INVALID INPUT  1 2 3 6 9 18 |

**Pseudo code**

1. Enter a number
2. Set i=1
3. If n>0 then
   1. If i<=n
      1. If n%i==0
         1. Print i and increment i
      2. Increment i
4. Else Print Invalid Input

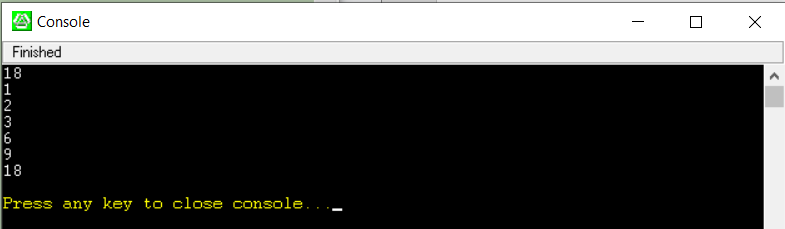
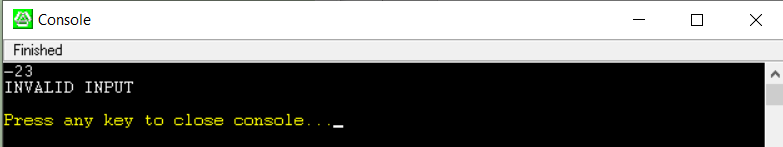
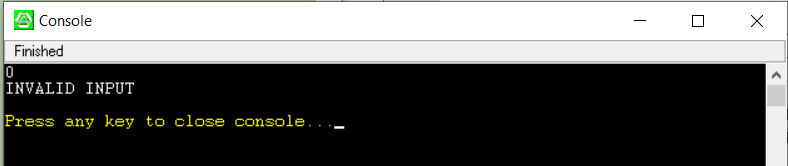
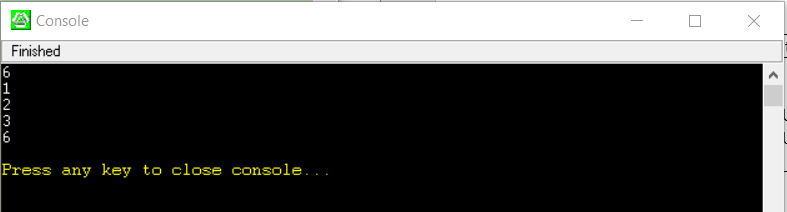
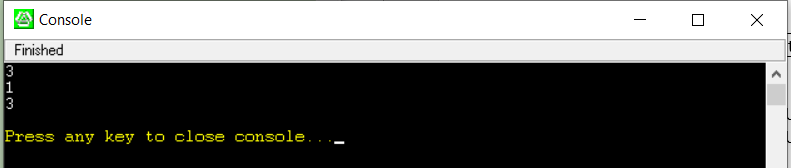
**Trace Table**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| n | i=1 | n>0 | i<=n | n%i==0 | print i | increment i | increment i | print invalid input |
| 6 | 1 | True | True | True | 1 | 2 |  |  |
|  |  |  |  | True | 2 | 3 |  |  |
|  |  |  |  | True | 3 | 4 |  |  |
|  |  |  |  | False |  |  | 5 |  |
|  |  |  | True | False |  |  | 6 |  |
|  |  |  | True | True | 6 | 7 |  |  |
|  |  |  | False |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Expected Input | Expected Output | Actual Output | Test Result |
| 3  6  0  -23  18 | 1 3  1 2 3 6  INVALID INPUT  INVALID INPUT  1 2 3 6 9 18 | 1 3  1 2 3 6  INVALID INPUT  INVALID INPUT  1 2 3 6 9 18 |  |

**Final Result**

**Expected Inputs and Outputs**

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