

Quote of the day:  
 "Push yourself because no one else is going to do it for you."

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## Flow of Program

Flowcharts: Visualize taught process / Process or workflow.

Start/Stop



(Oval)

Input/Output



(Parallelogram)

Processing



(Rectangle)

Condition



(Diamond / Rhombus)

Flow direction of prgm



(Arrow)

Q. Take a name and output HelloName.

Soln:

START

INPUT Name

OUTPUT Hello {Name}

END

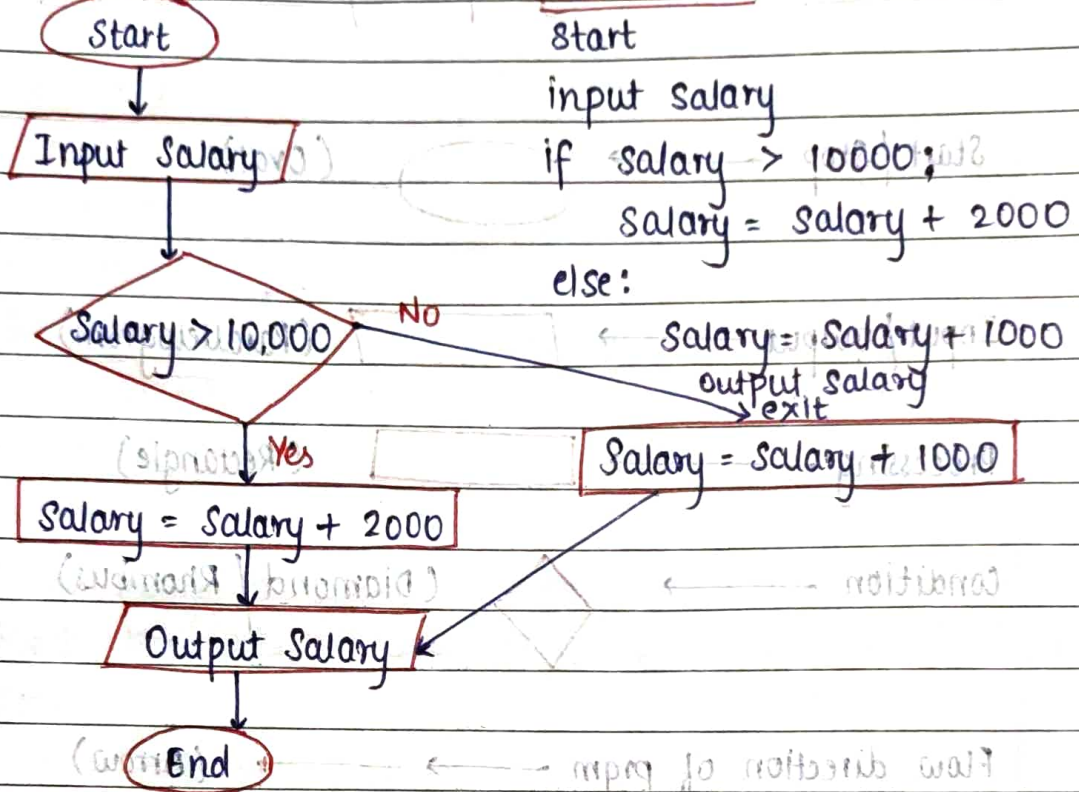
Example: 3  
 1-3/3  
 2-3/3

Example: 12  
 1-12/12  
 2-12/6  
 3-12/4  
 4-12/3  
 5-12/2  
 6-12/2  
 7-12/1

Q. Take input of a salary. If the salary is greater than 10,000 add bonus as 2000, otherwise add bonus as 1000.

Soln:

Pseudocode:



Q. Input a number and print whether it is prime or not.

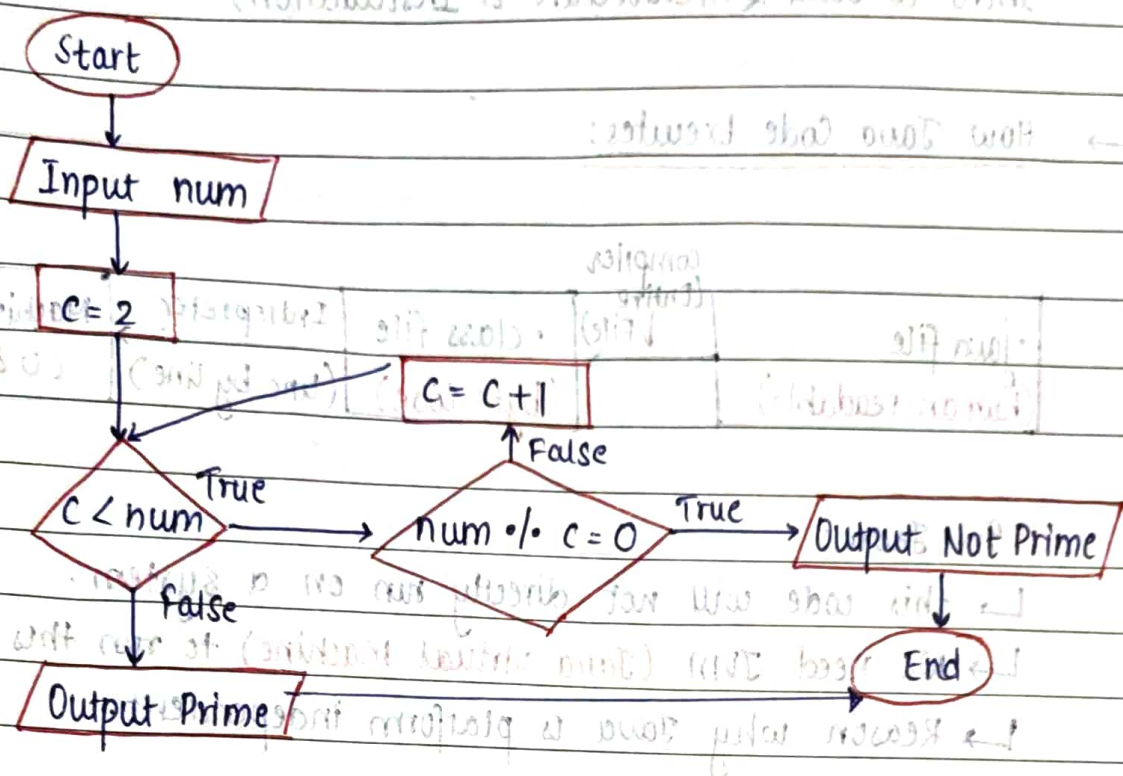
Soln: (No. divisible by 1 and the no. itself is called Prime No.)

Example: 3  $\left\{ \begin{array}{l} 3/1 = 3 \\ 3/3 = 1 \end{array} \right\}$  // It's a prime no. (Only 1 factor)

2, 5, 7, 11, 13, 17 are also prime nos.

Example: 12  $\left\{ \begin{array}{l} 12/1 = 12 \\ 12/2 = 6 \\ 12/3 = 4 \\ 12/4 = 3 \\ 12/6 = 2 \\ 12/12 = 1 \end{array} \right\}$  (More than 2 factors)  
// It's a composite no.

4, 6, 8, 9, 10, 12, 14, 15, 16, 18 & 20 are also composite nos.



Pseudocode (Representation of the code, textbased)

Pseudocode for above flowchart:

```

Start
input num
c = 2
while c < num:
    if num % c == 0:
        output "not prime"
        exist
        c = c + 1
    else:
        c = c + 1
end while
output "prime"
exist
  
```