Flowcharting

1) Use MS VISIO to create the following flowcharts

1.1 Steps to start your car (min 3 steps, max 5 steps).

1.2 Steps to ask for two numbers (from a friend) and decide which is the largest number or if they are equal in value.

1.3 Steps to prompt for a number (positive integer) and display (or print) a series of number in decreasing order starting from the given number. (i.e. number = 5, -> 5,4,3,2,1)

1.4 Steps to guess a number between 1 and 100. Assume your friend thinks of the number and you try guessing it. Every time you try to guess the number your friend will let you know if your guess is higher or lower than the number you are trying to guess.

Pseudocode

START

1.5 Write lab

1.2, 1.3, 1.4 in Pesudocode format. Desk Check 1.3

1.2)

INPUT N1 N2

START

INPUT N1 N2

IF N1>N2 THEN

PRINT N1 is the largest

ELSEIF N1<N2 THEN

PRINT N2 is the largest

N1>N2

ELSE

PRINT N1 and N2 are equal

false

ENDIF

END

N1<N2

1.3)

true

START

true

INPUT N

false

WHILE N>0 THEN

N1 is the greatest

PRINT N

N1 and N2 are equal

N2 is the greatest

SET N=N-1

ENDWHILE

END

END

PRINT N

START

N=N-1

PRINT N

N>0

true

false

END

1.4 Steps to guess a number between 1 and 100. Assume your friend thinks of the number and you try guessing it. Every time you try to guess the number your friend will let you know if your guess is higher or lower than the number you are trying to guess.

START

INPUT N

INPUT G

WHILE G!=N THEN

IF G > N THEN

PRINT “G is greater”

ELSE PRINT “G is smaller”

ENDIF

|  |  |
| --- | --- |
| N | G |
| 12 | 8 |
|  | 9 |
|  | 10 |
|  | 11 |
|  | 12 |
|  |  |
|  |  |
|  |  |
|  |  |

INPUT G

ENDWHILE

PRINT “You guessed the number N”

START

END

G is Smaller

false

true

false

true

G is greater

G>N

INPUT G

N!=G

U GUESSED

END