WEEK 14: Assignment

1.	Write a pseudo code to: Write a pseudo code to add two numbers.
	Pseudocode:
	Read A; Read B; C=A+B; Print C;
	 Write a pseudo code to Subtract two numbers.
	Pseudocode:
	Read a;
	Read b;
	c=a-b;
	Print c;
	End.
	 Write a pseudo code to Multiply two numbers
	Pseudocode:
	Read A; Read B; C=A* B; Print C; END.
	 Write a pseudo code to Divide two number:
	Pseudocode:
	Read a;
	Read b;
	c=a/b;
	Print c;
	End.

Write a pseudo code to Calculate the Area of triangle.

Pseudocode:

Begin

Numeric Base, Area, Height;

DISPLAY "Enter the base of triangle: "

ACCEPT Base

DISPLAY "Enter the height of triangle: "

ACCEPT Height

Area=Base*Height

DISPLAY "Area of triangle: " Area

END.

Write a pseudo code to Calculate the Hypotenuse of a triangle.

Pseudocode:

Read A;

Read B;

 $C=((A\times A)+(B\times B))^{1/2}$;

Print C:

Write a pseudo code to Calculate the Area and circumference of a circle.

Pseudocode:

BEGIN

numeric Radius, Cir, Area

DISPLAY "Enter the radius of circle:"

ACCEPT Radius

Cir=2*Radius*22/7

DISPLAY "Circumfurance of circle: "nCir

DISPLAY "Enter the radius of circle:"

ACCEPT Radius

Area = Radius*Radius*22/7

DISPLAY "Area of circle: " Area

END

Write a pseudo code to Calculate Square and Cube of any number

Pseudocode: READ A: SQUARE=A* A; Print Square; Cube = Square * A; Print Cube; Write a pseudo code to Calculate the number is odd or even. **Pseudocode: BEGIN NUMERIC Num** DISPLAY "Enter a number: " ACCEPT Num If(Num%2==0) **BEGIN** DISPLAY "even" **END ELSE BEGIN** DISPLAY "odd" END. Write a pseudo code to Calculate the number is prime or not. **Pseudocode:** Read n; FOR loop=2 to n-1 Check if number is divisible by loop IF divisible

Print "NOT PRIME"		
END IF		
END FOR		
Print "PRIME"		
 Write a pseudo code to Calculate the floor and ceiling of any user input decimal number. 		
Pseudocode:		
Read A;		
F=[A]		
C=[A]		
Print F;		
Print C;		

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2. Write an algorithm and draw a flowchart that will determine the largest value with two inputs. (Slide 23)

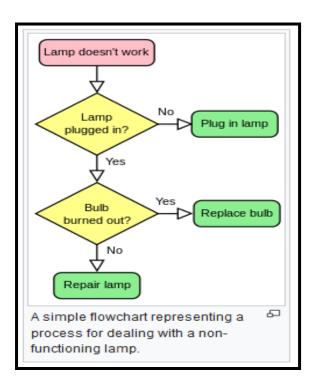
Algorithm:

Step 1: Start

Step 2:

Step 3: Stop

Flowchart: Prepare a flow chart in PPT and take a screenshot and paste it in the word as image shown below.



Write an algorithm and draw a flowchart that will determine the largest value with two inputs.

Algorithm:

Step 1: Input VALUE1, VALUE2 as V1 and V2;

Step 2: if (VALUE1 > VALUE2) then

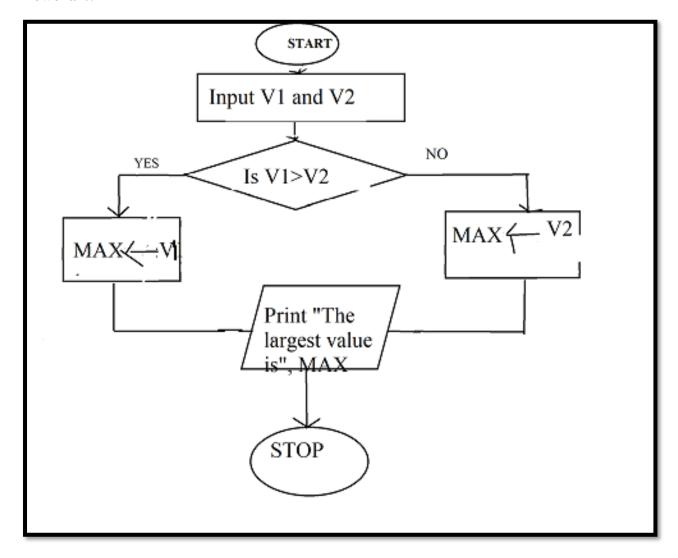
MAX is V1

else

MAX is V2

Step 3: Print "The largest value is", MAX

Flowchart:



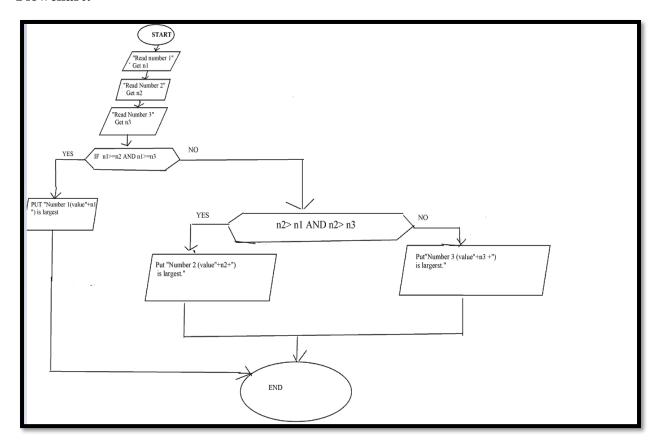
Write an algorithm and draw a flowchart that will determine the largest value with three inputs.

Algorithm:

- Step 1: Start
- Step 2: Read the three numbers to be compared, as A, B and C.
- Step 3: Check if A is greater than B.
- Step 4: If true, then check if A is greater than C. If true, print 'A' as the greatest number. If false, print 'C' as the greatest number.
- Step 5: If false, then check if B is greater than C. If true, print 'B' as the greatest number. If false, print 'C' as the greatest number.

Step 6:End

Flowchart:



Write an algorithm and draw a flowchart that will determine if the number is even or odd.

Algorithm:

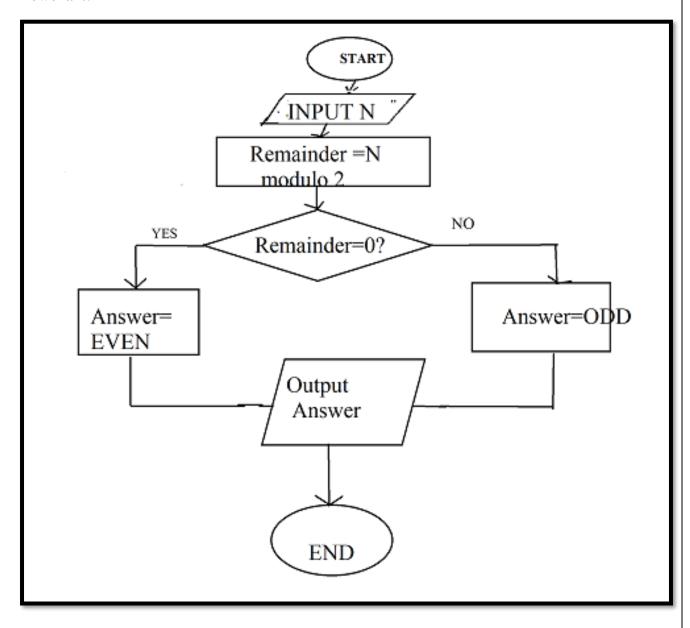
Step 1: Read number N,

Step 2: Put the remainder as N modulo 2,

Step 3: If the remainder is equal to 0 then number N is even, else number N is odd,

Step 4: Print output.

Flowchart:



Write an algorithm and draw a flowchart that will add two numbers.

Algorithm:

Step 1: Start

Step 2: Declare variable A,B and sum;

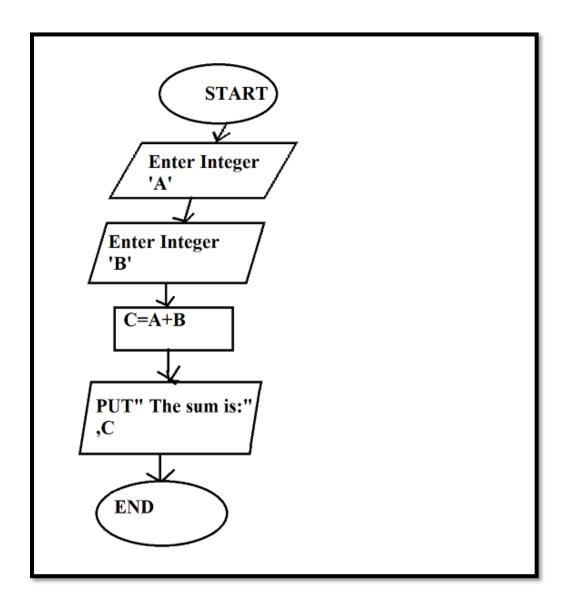
Step 3:Enter Integer A and B;

Step 4: Do the addition for A and B, assign the result in C;

Step 5:Print C;

Step 6:End

Flowchart:



Write an algorithm and draw a flowchart that will subtract two numbers.

Algorithm:

Step 1: Start

Step 2: Declare variable A,B and substractiom;

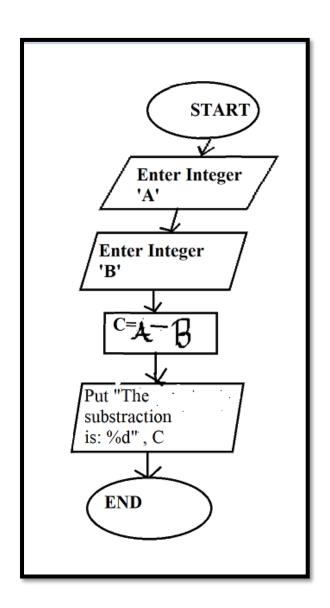
Step 3:Enter Integer A and B;

Step 4: Do the substraction for A and B, assign the result in C;

Step 5:Print C DISPLAY substraction;

Step 6:End

Flowchart:



Write an algorithm and draw a flowchart that will multiply two numbers.

Algorithm:

Step 1: Start

Step 2: Declare variable A,B and mult;

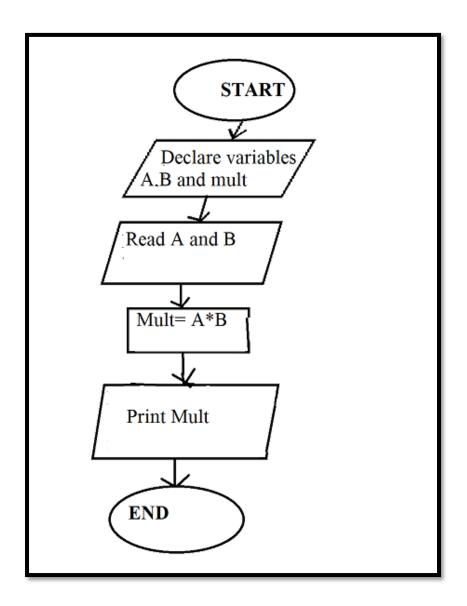
Step 3:Enter Integer A and B;

Step 4: Do the multiplication for A and B, assign the result in C;

Step 5:Print C DISPLAY multiplication;

Step 6:End

Flowchart:



Write an algorithm and draw a flowchart that will divide two numbers.

Algorithm:

Step 1: Start

Step 2: Declare variable A,B and divide;

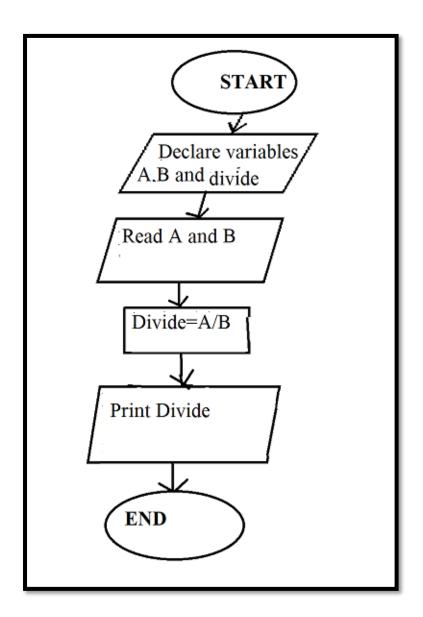
Step 3:Enter Integer A and B;

Step 4: Do the division for A and B, assign the result in C;

Step 5:Print C DISPLAY division;

Step 6:End

Flowchart:



Write an algorithm and draw a flowchart that will calculate the area of triangle. (1/2 * base * height)

Algorithm:

STEP 1: START

STEP 2 : ACCEPT THE BASE OF, TRIANGLE

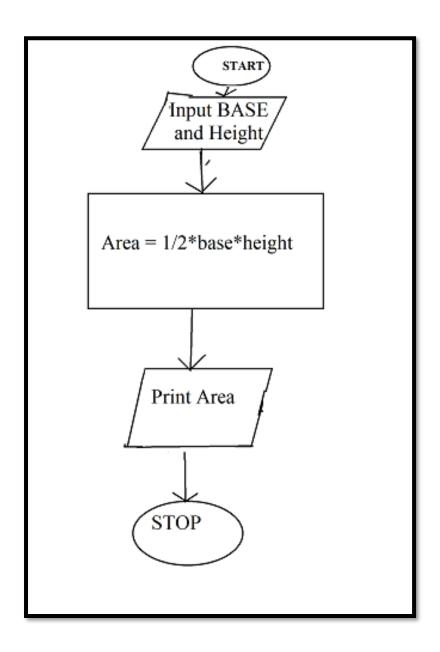
STEP 3: ACCEPT THE Height OF RECTANGLE

STEP 4 : Area = $\frac{1}{2}$ *base*height

STEP 5: DISPLAY

STEP 6: STOP

Flowchart:



• Write an algorithm and draw a flowchart that will calculate the hypotenuse of a triangle. $(a^2 + b^2 = c^2)$

Algorithm:

Step 1: Start

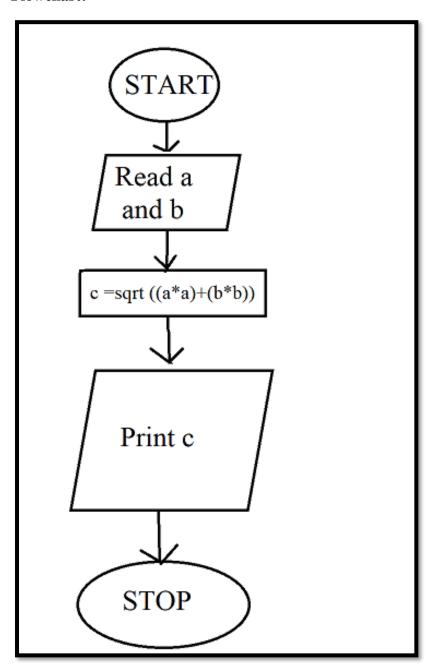
Step 2: Read a and b

Step 3: Calculate $(a^2 + b^2)^{1/2}$ and store it in c

Step 4: Print c

Step 5: Stop

Flowchart:



Write an algorithm and draw a flowchart that will calculate the area and circumference of a circle.

Algorithm:

Step 1:Start

Step 2: : Give Pi = 3.14

Step 3: Read the value of radius r of Circle

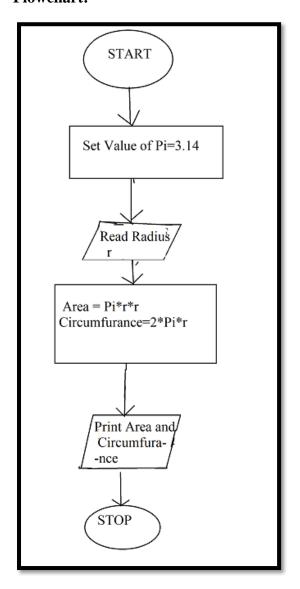
Step 4: Calculate area of Circle = Pi x r x r

Step 5: Calculate the Circumference (C) = $2 \times Pi \times r$

Step 6: Print and Calculate the Area and Circumference of circle

Step 7: End.

Flowchart:



Write an algorithm and draw a flowchart that will calculate the square and cube of any number.

Algorithm:

Step 1: Start

Step 2: Input Side Length of Square say L

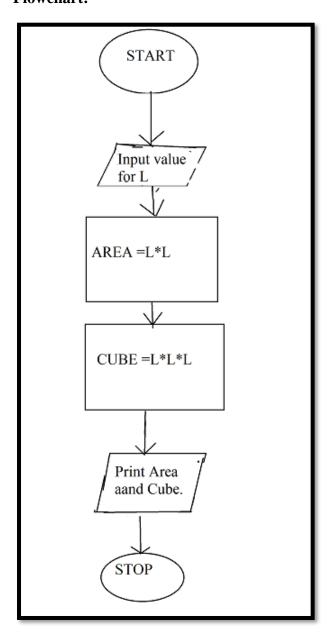
Step 3: Area = $L \times L$

Step 4: CUBE = L*L*L

Step 5: Display AREA, Cube

Step 6: Stop

Flowchart:



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