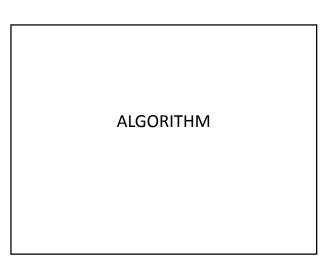**FACULTY OF ENGINEERING AND TECHNOLOGY**
UNIVERSITY OF LUCKNOW
LUCKNOW

Computer System and Programming in 'C'
CS-101/201

Er. Zeeshan Ali Siddiqui
Assistant Professor
Deptt. of C.S.E.

ALGORITHM

Algorithm

An algorithm is a finite set of instructions that if we followed in sequence it accomplish a particular task in finite time and requires finite space in memory.

- There are in general five criteria which an algorithm must satisfy-

1. Input
2. Output
3. Definiteness
4. Finiteness
5. Effectiveness

Algorithm to add two numbers

Step 1: Input first number as P
Step 2: Input second number as Q
Step 3: Set Sum=P+Q
Step 4: Print Sum
Step 5: End.

Algorithm for swapping of two values

Step 1: Input value of first number in P
Step 2: Input value of second number in Q
Step 3: Set Temp = P
Step 4: Set P = Q
Step 5: Set Q= Temp
Step 6: Print P and Q
Step 7: End.

Homework

- Write an algorithm to calculate the area of rectangle. Given its length and width.

- Write an algorithm to calculate the perimeter of a circle. Given its radius.

- Write an algorithm to swap values of two numbers without using a third variable.

- Write an algorithm to find the factorial of a given number.

Thank You.

BTQ

BTQ: Brain Teaser Question

How many letters are in the alphabet?

☺