Agenda

Typecasting
Types of errors
Input issue

1. Typecasting - converting data from one type to another type
   a. Implicit typecasting - compiler converts data into implicit form
   b. Explicit Typecasting - programmer will specify to which type data to be converted
      i. Add data type () before operand
      ii. Add type character post to the operand e.g
          12L - convert 12 integer data into long int data type
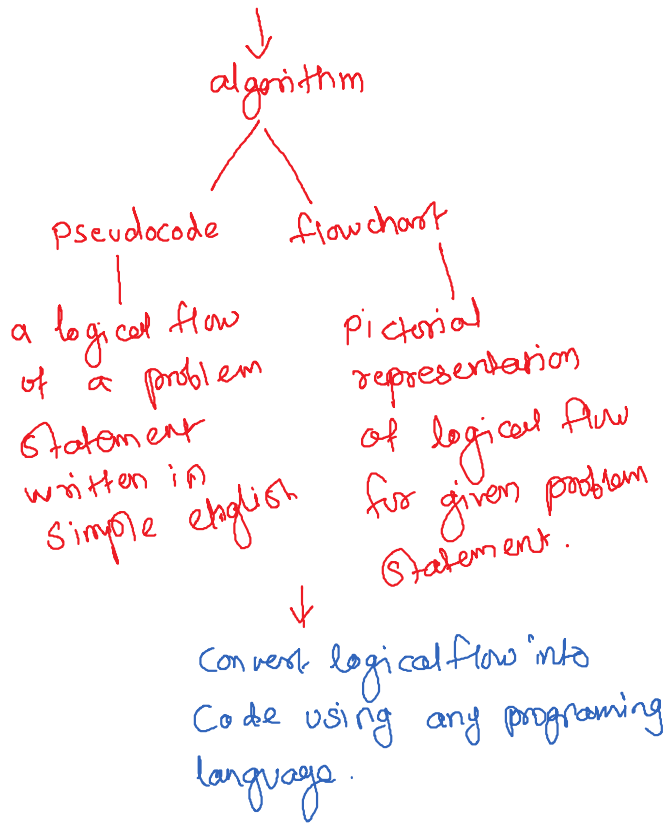   7f - convert data into float type

char
|
int
|
float
|
double

signed
|
unsigned

char = int
⟵   int is demoted
              downcasting
              narrowing down
chance is data may less .

Accept 3 numbers from user and display average

algorithm

Pseudocode   flowchart

a logical flow   pictorial
of a problem   representation
statement   of logical flow
written in   for given problem
simple english   statement.

Convert logical flow into
code using any programing
language.

Start
Declare num1,num2,num3,avg
Display "Specify number"
Input num1
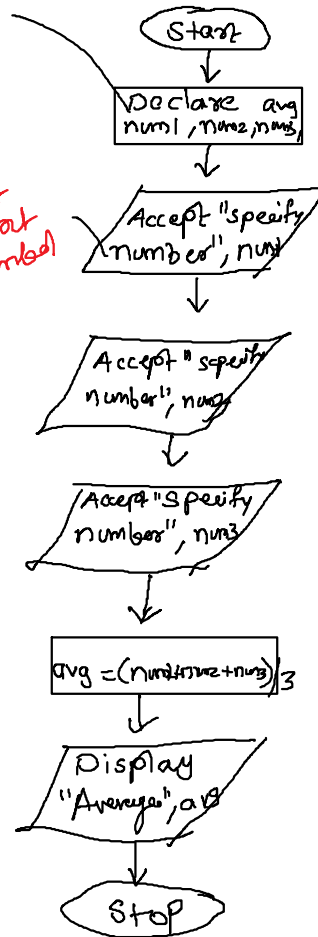Display "Specify number"
Input num2
Display "Specify number"
Input num3
Avg = (num1+num2+num3)/3;
Display "Average =",avg
end

Process symbol

input output symbol

Start

Declare avg num1, num2, num3

Accept "specify number", num1

Accept "specify number", num2

Accept "specify number", num3

avg = (num1+num2+num3)/3

Display "Average", avg

Stop

Types of errors
1. Compile Time Error
2. Runtime Error
3. Linker Error
4. Logical Error

$$int \ x = \boxed{5 + 2};$$
$$X = 7;$$

location
|
nature is variable

$$7 = 5 + 2$$

it
identifier.

it is a int constant

$$\boxed{7} = 5 + 2$$

constant
not modifiable. — lvalue required error
↓
compile time error

locator value which is
modifiable is requried.

$$\boxed{3 + 2} = 8 * 2$$

$$6 \times 16$$

$$\boxed{i = 5} \quad i = 7$$

$$\boxed{i = i + 2} = 3$$

$$i = 5 + 2$$
$$i = 7$$

$$\boxed{7} = 3$$

constant = lvalue

$$2 + \boxed{3 * 7}$$

$$2 + 21$$
$$2 = 21$$

stack

stdin

transferred
storage

3 3 ↵

ch = '↵'

num = 33
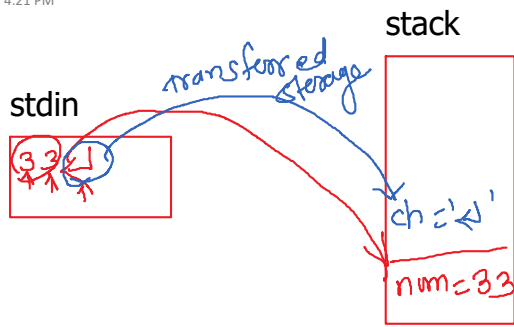
3 streams are available
1. stdin - standard input buffer stream
2. stdout - standard output buffer stream
3. stderr - standard error stream