

Logic Building Session

Day 1: Sep 2022

Session 1

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-Programming Task:

-Algorithm

-Pseudocodes : steps to be followed.

-outline of a program.

-Example:

- 1.Read the input.
- 2.Define sum=0.
- 3.Add: $\text{sum} \leftarrow \text{sum} + \text{n1} + \text{n2}$
- 4.Print sum



Input: 2, n1, n2, Sum
Logic: Add: $\text{sum} \leftarrow \text{sum} + \text{n1} + \text{n2}$
Output: print sum

EXAMPLE OF PSEUDOCODE

1. Start
2. Read `quantity`
3. Read `price_per_kg`
4. `price` \leftarrow `quantity` * `price_per_kg`
5. Print `price`
6. End

- Diagrams: Flow chart : pictorial representation.
- Follow certain symbols.



Start/End



Process

Input

10,20



Addition

Output

30



Input/Output



Decision/Test



connectors



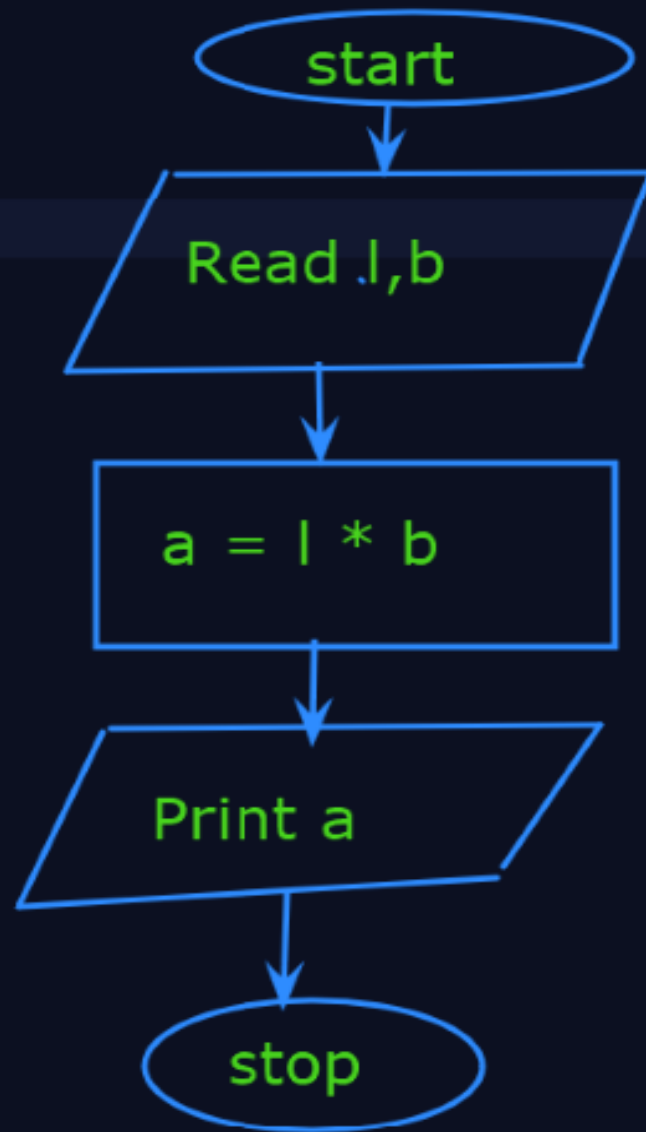
Flow of activities

Input: 2, n1, n2, Sum
Logic: Add: $sum \leftarrow n1 + n2$
Output: print sum

Examples Of Algorithms In Programming

- **Write an algorithm to add two numbers entered by user.**
- **Step 1:** Start
- **Step 2:** Declare variables num1, num2 and sum.
- **Step 3:** Read values num1 and num2.
- **Step 4:** Add num1 and num2 and assign the result to sum.
sum←num1+num2
- **Step 5:** Display sum
- **Step 6:** Stop

- Diagrams: Flow chart : pictorial representation.
- Follow certain symbols.



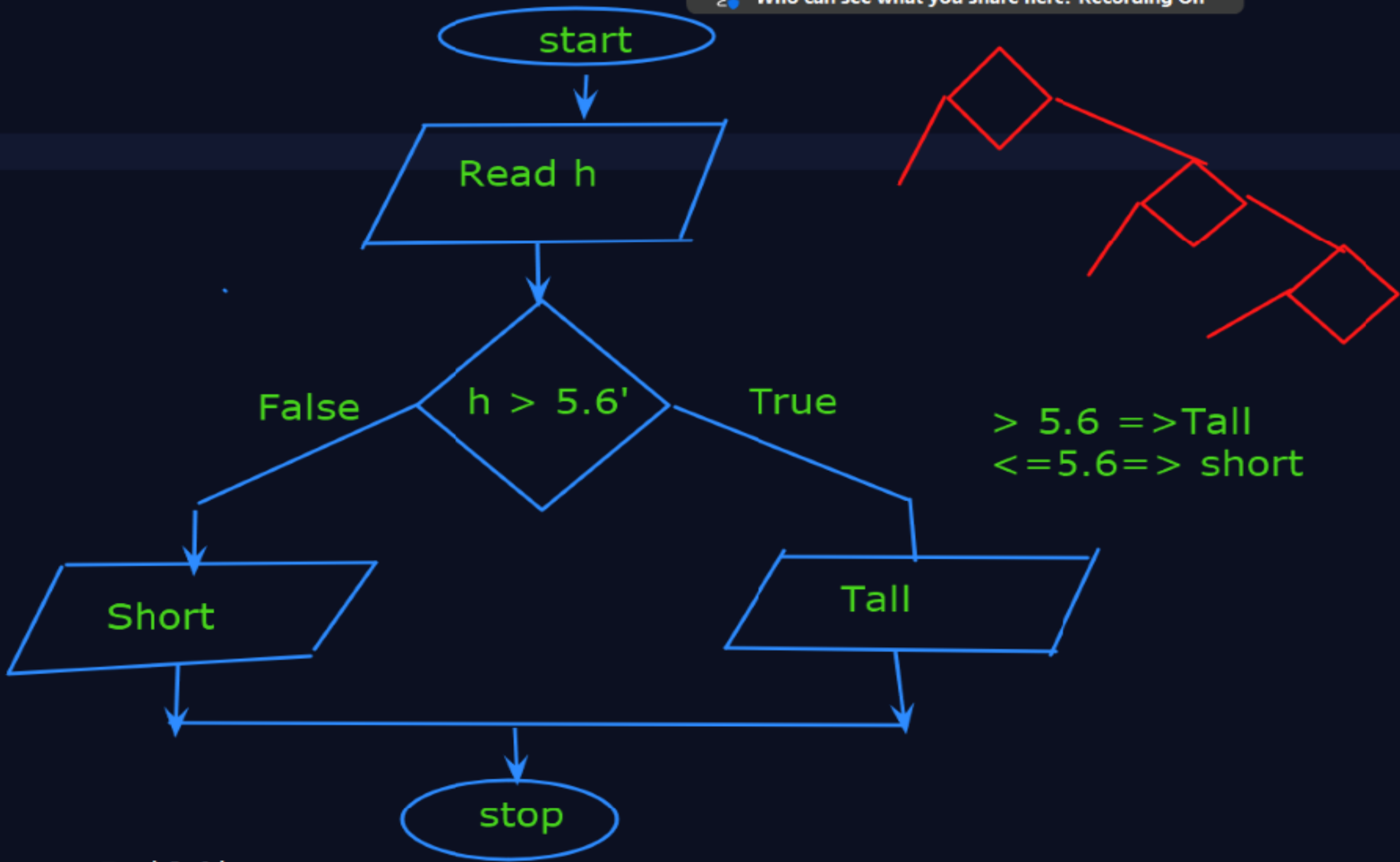
Area=Length * breadth

Input:2; l,b

Output: 1; a

- Follow certa

Who can see what you share here? Recording On



- Program Building

The requirement for Java Hello World Example

- **For executing any java program, you need to**
 - Install the JDK if you don't have installed it, download the JDK and install it.
 - Set path of the jdk/bin directory
 - Create the java program
 - Compile and run the java program

class

First{ }

keyword

user defined name

class name

class First{

public

static

void

main(

String

args[]

)

access
modifier

Return
type

method
name

arguments for main function

```
public static void main(String[] args) {  
    System.out.println("Hello....");  
}
```

Folders--> Packages

↓
classes

↓
Methods

System.out.println

System: inbuilt java class defined in java.lang package

out: reference variable (Object)
-java.io.PrintStream

Println(): method
-java.io.PrintStream
-print text on console window