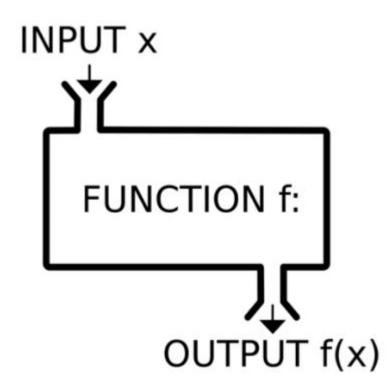
Lecture 9

Java Methods



Variable Scope

Variable scope tells you where the variable is valid.

Default variable scope is block scope.

```
// Variable Declaration - Creates storage for the variable
// Variable Initialization - Assigns the value first time to the variable
// Variable Assignment - Update the value of the variable
class Main {
   public static void main(String[] args) {
       String ishanComputerScienceNotes = "ABCDEFGH";
       System.out.println( "Ishan's notes are " + ishanComputerScienceNotes);
       namanNotes(ishanComputerScienceNotes);
      System.out.println( "Ishan's notes are " + ishanComputerScienceNotes);
      dineshNotes(ishanComputerScienceNotes);
      System.out.println( "Ishan's notes are " + ishanComputerScienceNotes);
   public static void namanNotes(String namanComputerScienceNotes) {
          System.out.println( "Naman's notes are " + namanComputerScienceNotes);
          namanComputerScienceNotes = "ABCDEFGH123456";
          System.out.println( "Naman's notes are " + namanComputerScienceNotes);
   public static void dineshNotes(String dineshComputerScieneNotes) {
       System.out.println( "Dinesh's notes are " + dineshComputerScieneNotes);
      dineshComputerScieneNotes = "ABCEFGHBHAINS";
      System.out.println( "Dinesh's notes are " + dineshComputerScieneNotes);
```

```
public static void main(String[] args) {
    String name = "Shubham"; // this name variable is under main scope only
    String name1 = "Vikas";
    String name2 = "Neha";
    String name3 = "Sumit";
    // printName(name);
    printName(name1); // it copies the value of name1 variable and stores it in name variable of printName function
    // printName(name2);
    // printName(name3);
// pass by value
public static void printName (String name) { // this variable name is under the scope of printName function
```

System.out.println("Student name is " + name);

name = "Ishan";

MARKS QUESTION

```
public static void main(String[] args) {
   int marks = 90;
   System.out.println("Marks in main " + marks);
   printMarks (marks);
   marks = 100;
   printMarks(marks);
   marksheet (marks);
public static void printMarks(int studentMarks) {
   System.out.println("Marks in printMarks" + studentMarks);
   // studentMarks = 100;
   // System.out.println("Marks in printMarks " + studentMarks);
public static void marksheet(int marksheet) {
   System.out.println("Marks in marksheet" + marksheet);
```