

Concepts of Programming Day 5: Sep 2022

Introduction to Java

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Access specifier:
-private

_

class Book{

2.Local variable

-variables used in methods, constructors and block

-variables defined in class

//Instance variable

String Title;

int price;

//methods

psvmain()

String Author;

//constructor

System.out.println("Square root = "+Math.sqrt(25));

```
Command Prompt
C:\Test>javac PredefinedMethod1.java
C:\Test>java PredefinedMethod1
Square root = 5.0
C:\Test>
```

```
void sayHello() 🗸
   __System.out.println("Hello CDAC !");
 public static void main(String args[]) {
  InstanceMethod1 [1] = new InstanceMethod1();
  //Method/call
 (il)sayHello();
```

```
public class InstanceMethod1{
                                                            Who can see what you share here? Recording On
          💯 id sayHello()
              System.out.println("Hello CDAC !");
         public static void main(String args[]) {
          InstanceMethod1(i1) = new InstanceMethod1();
10
11
12
          //Method call
         🚤 il.sayHello(); ႃ 🗸
14
15
16

j1.sayHello()
17
18
19
```

```
main()
void sayHello(String s)
                                                            sayHello()
    String str;
    str = s;
    return s;
                                        i1.sayHello
public static void main(String args[]) {
 InstanceMethod2 i1 = new InstanceMethod2();
 //Method call : calling od a function
 String s1 = i1.sayHello("Good morning");
 System.out.println(s1);
```

```
□class Test3{
                                                     Who can see what you share here? Recording On
                                                Command Prompt
     static int x = 20;//static variable
                                               C:\Test>javac Test3.java
     int y = 30;//instance variable
                                               Test3.java:17: error: non-static variable y
                                               enced from a static context
     //non static method
                                                              System.out.println(y);
     void display()
                                               1 error
          System.out.println(x);
                                               C:\Test>javac Test3.java
          System.out.println(y)-
                                               C:\Test>java Test3
          show();
       static method
                                               20
      static void show()
                                               C:\Test>
          System.out.println(x)
          //System.out.println(y);//Error
      public static void main(String args[]){
          Test3 t1 = new Test3();
          t1.display();
           show():
```

```
public class Test3{
                                                 Who can see what you share here? Recording On
    static int x = 20;//static variable
    int y = 30;//instance variable
    //non static method
                                                               20
    public void display()
         System.out.println(x++);
         System.out.println(y);
         show();
    //static method
    public static void show()
         System.out.println(x);
         //System.out.println(y);//Error
    public static void main (String args[]
        Test3 t1 = new Test3();
         t1.display():
```

