# Basic Fundamental Programming
# Day 3: Sep 2021

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Day3:23.09.21
Topics: Class & Objects
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Class: It is defined as a template that describe the
behaviour & states of a particular entity.
-hold data members and methods
-class can be public or default
-abstract class, final class or concrete class(normal)
public class Car
{
}

Object:instance of class
charasteristics of Object:
1.State of Object
-represent the data/value of the object

2.Behaviour of Object
-represents the behaviour of an object
a1.add();
a1.sub();
a1.mul();

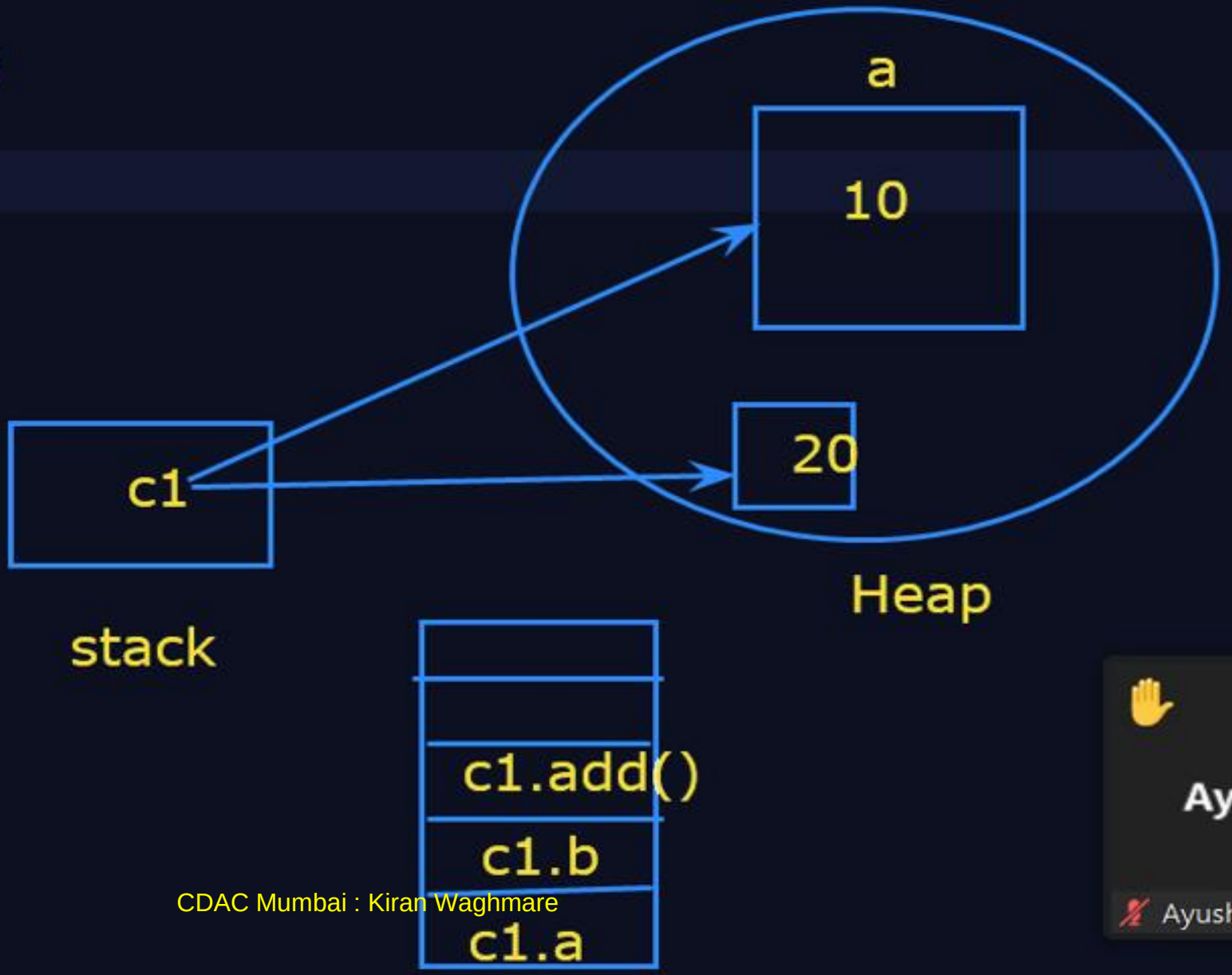
3. Identity of Object
-unique id, which is identified by JVM
```

e.g.,

```
Cake c1 = new Cake();
```

```
int a =10;
```

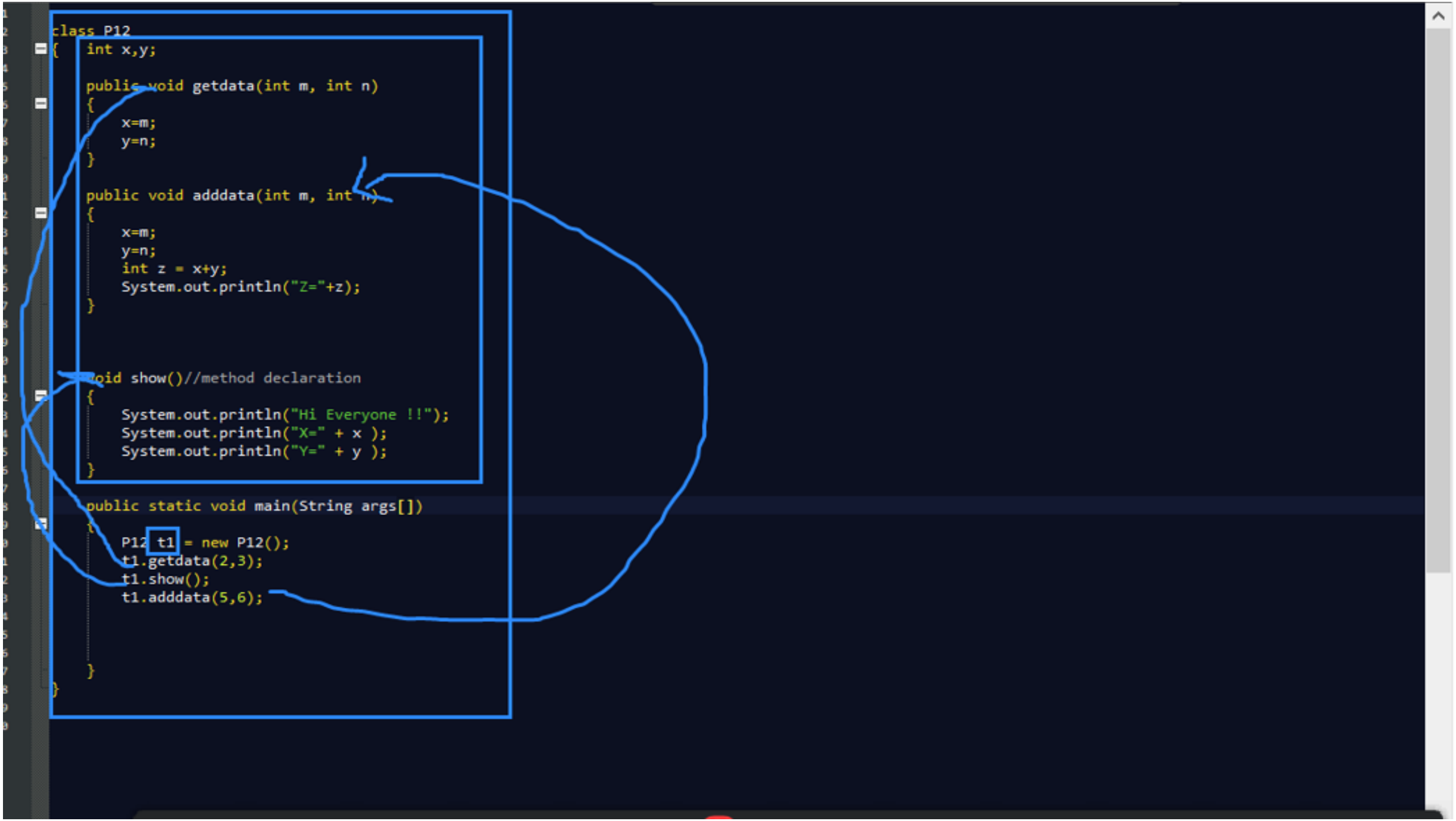
```
c1.a;
c1.b;
c1.add();
```



```
class P10
{

    public static void main(String args[])
    {


    }
}
```



```
class P12
{
    int x,y;

    public void getdata(int m, int n)
    {
        x=m;
        y=n;
    }

    public void adddata(int m, int n)
    {
        x=m;
        y=n;
        int z = x+y;
        System.out.println("Z="+z);
    }

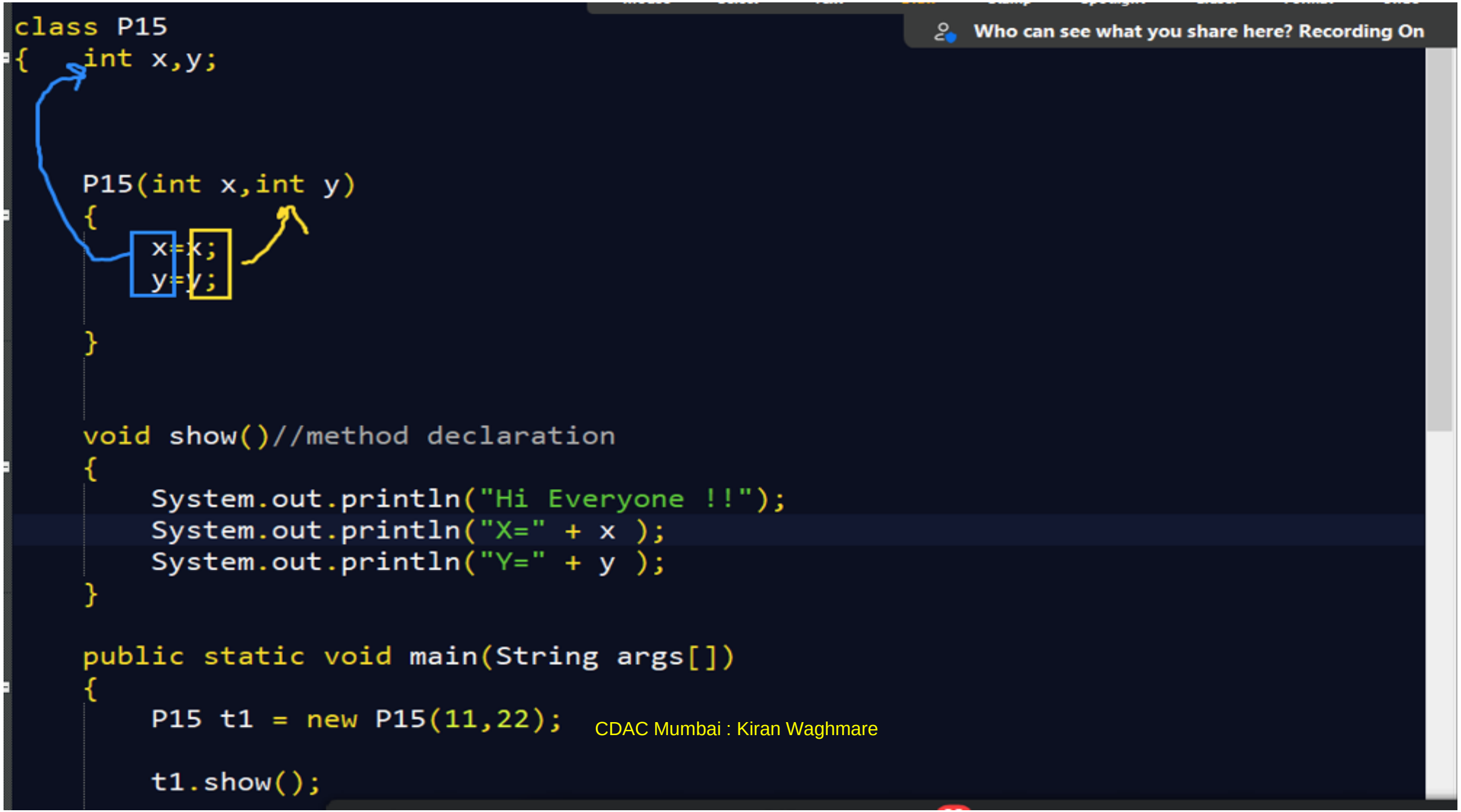


    void show()//method declaration
    {
        System.out.println("Hi Everyone !!");
        System.out.println("X=" + x );
        System.out.println("Y=" + y );
    }

    public static void main(String args[])
    {
        P12 t1 = new P12();
        t1.getdata(2,3);
        t1.show();
        t1.adddata(5,6);



    }
}
```


Who can see what you share here? Recording On
class P15
{ int x,y;
P15(int x,int y)
{
x=x;
y=y;
}
void show()//method declaration
{
System.out.println("Hi Everyone !!");
System.out.println("X=" + x );
System.out.println("Y=" + y );
}
public static void main(String args[])
{
P15 t1 = new P15(11,22);
t1.show();
CDAC Mumbai : Kiran Waghmare

```
    void display(int x)
    {
        this.x = x;
        System.out.println(x);
    }


    void show()//method declaration
    {
        System.out.println("Hi Everyone !!");
        System.out.println("X=" + x );
        System.out.println("Y=" + y );
    }

    public static void main(String args[])
    {
        P15 t1 = new P15(11,22);

        t1.show();
        t1.display(20);



    }
}
```

```java
void show()//method declaration
{
    System.out.println("Hi Everyone !!");
    System.out.println("X=" + x );
    System.out.println("Y=" + y );
}

public static void main(String args[])
{
    P16 t1 = new P16();

    //t1.show();
    //Method 1:
    System.out.println(t1.display(20));


    //Method 2:
    int z =t1.display(56);
    System.out.println(z);
```