17/2/25

Parameterized constructor.

```
class A {                          → 1 argument.
    A (int i) {
        s.o.p ("A const");
    }

    p s v m (string[] args) {
        A a = new A (10);
        s.o.p ("Hello");
    }
}
```

(*) Differentiate b/w multiple constructors.
1. no of parameters → overloading.
2. type " "

Duplicate constructur not allowed.

(*) constructor overloading in java is a technique where a class can have multiple constructors with different parameter lists. ~~This allows t~~

(*) constructor can be private, privat, or protected but can not be static.

```
class A {
    int a;          ← instance variable
    int b;
    A (int a1, int b1) {
        a = a1;
        b = b1;
    }
}
```

```
class B {
    P S V m (——) {
        A a1 = new A (20, 30);
        A a2 = new A (10, 50);
        s.o.p (a2.b)
        S.o.p (a1.a)
    }
}
```

a1 (a=20, a=30) a2 (a=10, b=50)

Q.

```
class A {
String name;
String roll;
String sec;
A (String name1, String roll1, String sec1) {
    name = name1;
    sec = sec1;
    roll = roll1;
}
p s v m (String[] args) {
    A s1 = new A ("Abc", "A", "11");
    A s2 = new A ("xyz", "B", "46");
}
```

(21)

(1) static → executes before main method.

```
class A {
  static {
      s.o.p ('sumit');
  }
  p s v m( ) {
      s.o.p. ("Anand")
  }
```

(4) can create any no. of static block.

```
class A {
    static {
        s.o.p ("A");
    }
    static{
        s.o.p ("B");
    }
    p.s v m ( ) {

    }
```

(*) static variable common among all object.

Q. WAP to count no. of objects will be created.

⇒
```
class A {
    A ( ) {
    static int count = 0
    count++;
    }
```

→ line executed 1 time. (static because same value for all objects)

```
class Main {
    p.s v m ( ) {
        A a1 = new A ( );
        A a2 = new A ( );

    }
}
```

This

This keyword is used for (i) current class variable. & (ii) for referring current class method (iii) for current class constructor. (iv) for current class object

```
Class A {
    int a = 10
    void m1() {
        S.O.P(this.a);
        this.m2();
    }
    int m2() { }
    p s v m( ) {

    }
}
```

⟹ new A().a;

④ this is not used in static box otherwise compiletime error.

this calling another method from same class without making object.