

Codes for constructor

```
1.class Student3{
  int id;
  String name;

  void display()
  {
    System.out.println(id,name);
  }
  public static void main(String args[]){
    Student3 s1=new Student3();
    Student3 s2=new Student3();
    s1.display();
    s2.display();
  }
}
```

```
2. class Student5{
  int id;
  String name;
  int age;
  Student5(int i,String n){
    id = i;
    name = n;
  }
  Student5(int i,String n,int a){
    id = i;
    name = n;
    age=a;
  }
  void display(){System.out.println(id+" "+name+" "+age);}

  public static void main(String args[]){
    Student5 s1 = new Student5(111,"Karan");
    Student5 s2 = new Student5(222,"Aryan",25);
    s1.display();
    s2.display();
  }
}
```

```
3. public class Cubel {

    int length;
    int breadth;
    int height;
    public int getVolume() {
        return (length * breadth * height);
    }
    Cubel() {
        length = 10;
        breadth = 10;
        height = 10;
    }
    Cubel(int l, int b, int h) {
        length = l;
        breadth = b;
        height = h;
    }
    public static void main(String[] args) {
        Cubel cubeObj1+cubeObj2;
        cubeObj1 = new Cubel();
        cubeObj2 = new Cubel(10, 20, 30);
        System.out.println("Volume of Cubel is : " +
            cubeObj1.getVolume());
        System.out.println("Volume of Cubel is : " +
            cubeObj2.getVolume());
    }
}

4. public class ConstructorDemo{
    public ConstructorDemo() {
        System.out.println("Inside no argument constructor");
    }

    public Constructor(String name){
        System.out.println("Inside one argument constructor in Java
with name: " + name);
    }
}
```

```
public static void main(String args[]) throws IOException {  
  
    ConstructorDemo d = new ConstructorDemo();  
    ConstructorDemo e = new ConstructorDemo("Testing");  
}  
}
```

```
5. class Candid  
{  
String name;  
  
int age;  
  
Student(String n,int a)  
{  
name=n;  
age=a;  
}  
  
class Student extends Candid  
{  
int id;  
Student(String n,int a,int i)  
{  
super(n,a);  
id=i;  
}  
}  
  
class Faculty extends Candid  
{
```

```
int ph;

Faculty(String n,int a,int ph)

{

Super (n,a);

ph=p;

}

}
```

```
6. class Dog extends Animal {
String name;
String breed;
```

```
public Dog(s) {
name = s;
breed = "unknown";
}
```

```
public Dog(String name, String breed) {
this.name = name;
this.breed = breed;
}
}
```

```
7. public class Platypus {
```

```
String name;
```

```
Platypus(String ) {
```

```
name = input;
```

```
}
```

```
Platypus() {  
  
    this("John/Mary Doe");  
  
}  
  
public static void main(String args[]) {  
  
    Platypus p1 = new Platypus("digger");  
  
    Platypus p2 = new Platypus();  
  
}  
  
}
```

```
8. class Mammal {  
  
    void getBirthInfo() {  
  
        System.out.println("born alive.");  
  
    }  
  
}  
  
class Platypus extends mammal {  
  
    void getBirthInfo() {  
  
        System.out.println("hatch from eggs");  
  
        System.out.print("a mammal normally is ");  
  
        super.getBirthInfo();  
  
    }  
  
}
```

```
}
```

```
}
```

```
9. package beginnersbook.com;
public class ConstOverloading
{
private int rollNum;
ConstOverloading()
{
rollNum =100;
}
ConstOverloading(int,rnum)
{
this();
rollNum = rollNum+ rnum;
}
public int getRollNum() {
return rollNum;
}
public void setRollNum(int rollNum) {
this.rollNum = rollNum;
}
}
class TestDemo{
public static void main(String args[])
{
ConstOverloading obj = new ConstOverloading(12);
System.out.println(obj.getRollNum());
}
}
```

```
10. Class enumCar {
    lamborghini(900), tata(2), audi(50), fiat(15), honda(12);
    private int price;
    Car(int p) {
        price = p;
    }
    int getPrice() {
        return price;
    }
}

public class Main {
    public static void main(String args[]){
        System.out.println("All car prices:");
        for (Car c : Car.values)
            System.out.println(c + " costs "
                + c.getPrice() + " thousand dollars.");
    }
}
```

```
11. public class ConstructorChaining{

    public static void main(String args[]) {

        Derived.sub = new Derived("Test");
    }
}

class Base{
    protected String name;

    public Base(){
        this("");
        System.out.println("Inside no argument constructor of
Base class");
    }

    public Base(String name){
        this.name = name;
        System.out.println("One arg constructor of Base class");
    }
}
```

```
    }  
}  
  
class Derived extends Base{  
  
    public Derived(){  
        System.err.println("Inside no argument constructor of  
Derived class");  
    }  
  
    public Derived(String name){  
        super(name);  
        System.out.println("Inside one arg constructor from Derived  
class");  
    }  
}
```

```
12. class Bicycle  
{  
    private int gear;  
    private int cadence;  
    private int speed;  
    public class(int startCadence, int startSpeed, int startGear)  
    {  
        gear = startGear;  
        cadence = startCadence;  
        speed = startSpeed;  
    }  
  
    public void ShiftUp() {  
        gear = gear + 1;  
    }  
}
```

```
13. public class Person {
```



```
private String name;

public Person(nameParameter ) {
    this.name = nameParameter;
}
public String toString() {
    return "My name is : " + this.name;
}

public static void main( String [] args ) {

    Person one = new Person("Patrick");
    System.out.println( one );
    Person two = new Person("Oscar");
    System.out.println( two );
}
}
```

```
14. class Rectangle {
    int length;
    int breadth;

    Rectangle(int len,int bre)
    {
        length  = len;
        breadth = bre;
    }
}

RectangleDemo {
    public static void main(String args[]) {

        Rectangle r1 = new Rectangle(20,10);

        System.out.println("Length of Rectangle : " + r1.length);
        System.out.println("Breadth of Rectangle : " + r1.breadth);

    }
}
```

```
15. package com.howtoprogramwithjava.constructors;
```

```
public class HumanBeingProgram extends Animal
```

```
{
public static void main (String[] args)
{
    HumanBeing me = new HumanBeing();
    output(me);

    HumanBeing you = new HumanBeing("blue", "female", "Jane Doe");
    output(you);
}

private static void output(HumanBeing human)
{
    System.out.println(human.getName() + "'s eyes are: " +
        human.getEyeColor());
    System.out.println(human.getName() + " is " + human.getSex());
    System.out.println("-----");
}
}
```

```
16. public class Department {

    private String name;
    private int id;

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public Department(int id, String name) {
        this.id = id;
    }
}
```

```
this.name = name;  
}
```

```
public Department(Department oldDepartment) {  
    this.id = oldDepartment.id;  
    this.name = oldDepartment.name;  
}
```

```
public String toString() {  
    return "Department Id: " + id + "\tDepartment Name: " + name;  
}  
}
```

```
17. public class Employee {
```

```
    private String name;  
    private int id;  
    private Department department;
```

```
    public Department getDepartment() {  
        return department;  
    }
```

```
    public String getName() {  
        return name;  
    }
```

```
    public int getId() {  
        return id;  
    }
```

```
    public void setDepartment(Department department) {  
        this.department = department;  
    }
```

```
    public void setName(String name) {  
        this.name = name;  
    }
```

```
    public void setId(int id) {  
        this.id = id;  
    }
```

```
    public Employee(int id, String name, Department department) {
```

```
this.id = id;
this.name = name;
this.department = department;
}

public Employee(Employee oldEmployee) {
    this.id = oldEmployee.id;
    this.name = oldEmployee.name;
    this.department = oldEmployee.department;
}

public String toString()
{
    return "Employee Id: " + id + "\tEmployee Name: " + name + "\t"
    + department;
}
}
```

```
18. enum Apple {
    A(10), B(9), C(12), D(15), E(8);

    private int price;    Apple(int p)
    {
        price = p;
    }

    int getPrice() {
        return price;
    }
}
```

```
public class EnumDemo3 {
    public static void main(String args[]) {
        Apple ap;
```

```
System.out.println(Apple.A.getPrice());

System.out.println("All apple prices:");
for (Apple a : Apple.values)
System.out.println(a + " costs " + a.getPrice() + " cents.");
}
}
```

19. class Volume {

```
    public void findVolume ( int s) {
        System.out.println ( "Volume of cube is "+ ( s * s * s ) );
    }

    public void findVolume ( int r, int h )
    {
        System.out.println ( "Volume of cylinder is "+ ( 3.14 * r * r *
        h) );
    }

    public void findVolume ( int l, int b, int h)
    {
        System.out.println ("Volume of cuboid is " + ( l * b * h ) );
    }
}
class VolumeTest {

    public static void main(String[] args) {
        Volume v;
        v.findVolume(3);
        v.findVolume(3,4);
        v.findVolume(3,4,7);
    }
}
```

20. package createobject;

```
import java.awt.Color;

public class Rectangle {
    private String name;
    private int length;
    private int width;
    private Color color;
    public Rectangle {
        this("undefined", 10, 10, Color.white);
    }
    public String toString() {
        return " Name: " +
            name+" width: " + width + " length: " + length + " color: " +
            color;
    }
    public Rectangle(String name, int width, int length, Color
        color)
    {
        this.name=name;
        this.length = length;
        this.width = width;
        this.color = color;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public int getLength() {
        return length;
    }
    public void setLength(int length) {
        this.length = length;
    }
    public int getWidth() {
        return width;
    }
    public void setWidth(int width) {
```

```
this.width = width;
}
public Color getColor() {
return color;
}
public void setColor(Color color) {
this.color = color;
}
}
```

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