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1)

**class** Main {

**private** String name;

//constructor

Main()

{

System.***out***.println("constructor is called");

name="programiz";

}

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

// **TODO** Auto-generated method stub

//constructor is invoked while

//creating an object of the main class

Main obj=**new** Main();

System.***out***.println("The name is= "+obj.name);

}

}

**output:**

constructor is called

The name is= programiz

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2)

**public** **class** Main1 {

**int** i;

//constructor with no parameter

**private** Main1()

{

i=5;

System.***out***.println("constructor is called");

}

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

// **TODO** Auto-generated method stub

//calling the constructor without any parameter

Main1 obj=**new** Main1();

System.***out***.println("The value i is= "+obj.i);

}

}

**output:**

constructor is called

The value i is= 5

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3)

**class** Company {

String name;

//public constructor

**public** Company()

{

name="programiz";

}

}

**class** Main2

{

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

// **TODO** Auto-generated method stub

//object is created in another class

Company obj=**new** Company();

System.***out***.println("The company name is= "+obj.name);

}

}

**output:**

The company name is= programiz

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4)

**class** Main3 {

String languages;

//constructor accepting single value

Main3(String lang)

{

languages=lang;

System.***out***.println(languages +" programing language ");

}

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

// **TODO** Auto-generated method stub

//call constructor by passing a single value

Main3 obj1=**new** Main3("java");

Main3 obj2=**new** Main3("python");

Main3 obj3=**new** Main3("c");

}

}

**output:**

java programing language

python programing language

c programing language

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5)//Program to print default values.

**class** Main4 {

**int** a;

**boolean** b;

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

// **TODO** Auto-generated method stub

//a default constructor is called

Main4 obj=**new** Main4();

System.***out***.println("Default Value: ");

System.***out***.println("a= "+obj.a);

System.***out***.println("b= "+obj.b);

}

}

**output:**

Default Value:

a= 0

b= false

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6)

**class** Main5 {

**int** a;

**boolean** b;

//a private constructor

**private** Main5()

{

a=0;

b=**false**;

}

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

// **TODO** Auto-generated method stub

//call the constructor

Main5 obj=**new** Main5();

System.***out***.println("Default Value: ");

System.***out***.println("a= "+obj.a);

System.***out***.println("b= "+obj.b);

}

}

**output:**

Default Value:

a= 0

b= false

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7)

**public** **class** Main6 {

String language;

//constructor with no parameter

Main6()

{

**this**.language="java";

}

//constructor with single parameter

Main6(String language)

{

**this**.language= language;

}

**public** **void** getName()

{

System.***out***.println("programing languge: "+ **this**.language);

}

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

// **TODO** Auto-generated method stub

//call constructor with no parameter

Main6 obj=**new** Main6();

//call constructor with single parameter

Main6 obj1=**new** Main6("python");

obj.getName();

obj1.getName();

}

}

**output:**

programing languge: java

programing languge: python

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1)

//Java Program to create and call a default constructor

**class** Bike1{

//creating a default constructor

Bike1()

{

System.***out***.println("Bike is created");

}

//main method

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

//calling a default constructor

Bike1 b=**new** Bike1();

}

}

**output:**

Bike is created

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2)

//Let us see another example of default constructor

//which displays the default values

**class** Student3

{

**int** id;

String name;

//method to display the value of id and name

**void** display()

{

System.***out***.println(id+" "+name);

}

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

//creating objects

Student3 s1=**new** Student3();

Student3 s2=**new** Student3();

//displaying values of the object

s1.display();

s2.display();

}

}

**output:**

0 null

0 null

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3)

//Java Program to demonstrate the use of the parameterized constructor.

**class** Student4{

**int** id;

String name;

//creating a parameterized constructor

Student4(**int** i,String n){

id = i;

name = n;

}

//method to display the values

**void** display(){System.***out***.println(id+" "+name);}

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

//creating objects and passing values

Student4 s1 = **new** Student4(111,"Karan");

Student4 s2 = **new** Student4(222,"Aryan");

//calling method to display the values of object

s1.display();

s2.display();

}

}

**output:**

111 Karan

222 Aryan

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4)

//Java program to overload constructors

**class** Student5{

**int** id;

String name;

**int** age;

//creating two arg constructor

Student5(**int** i,String n){

id = i;

name = n;

}

//creating three arg constructor

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();

}

}

**output:**

111 Karan 0

222 Aryan 25

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5)

//Java program to initialize the values from one object to another object.

**class** Student6{

**int** id;

String name;

//constructor to initialize integer and string

Student6(**int** i,String n){

id = i;

name = n;

}

//constructor to initialize another object

Student6(Student6 s){

id = s.id;

name =s.name;

}

**void** display(){System.***out***.println(id+" "+name);}

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

Student6 s1 = **new** Student6(111,"Karan");

Student6 s2 = **new** Student6(s1);

s1.display();

s2.display();

}

}

**output:**

111 Karan

111 Karan

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6)

**class** Student7{

**int** id;

String name;

Student7(**int** i,String n){

id = i;

name = n;

}

Student7(){}

**void** display(){System.***out***.println(id+" "+name);}

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

Student7 s1 = **new** Student7(111,"Karan");

Student7 s2 = **new** Student7();

s2.id=s1.id;

s2.name=s1.name;

s1.display();

s2.display();

}

}

**output:**

111 Karan

111 Karan

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1)

// Java Program to illustrate calling a

// no-argument constructor

**import** java.io.\*;

**class** Geek

{

**int** num;

String name;

// this would be invoked while an object

// of that class is created.

Geek()

{

System.***out***.println("Constructor called");

}

}

**class** GFG

{

**public** **static** **void** main (String[] args)

{

// this would invoke default constructor.

Geek geek1 = **new** Geek();

// Default constructor provides the default

// values to the object like 0, null

System.***out***.println(geek1.name);

System.***out***.println(geek1.num);

}

}

**output:**

Constructor called

null

0

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2)

// Parameterized Constructor

// Importing required input output class

**import** java.io.\*;

// Class 1

**class** Name {

// data members of the class.

String name;

**int** id;

// Constructor would initialize data members

// With the values of passed arguments while

// Object of that class created

Name(String name, **int** id)

{

**this**.name = name;

**this**.id = id;

}

}

// Class 2

**class** Main1 {

// main driver method

**public** **static** **void** main(String[] args)

{

// This would invoke the parameterized constructor.

Name geek1 = **new** Name("adam", 1);

System.***out***.println("GeekName :" + geek1.name

+ " and GeekId :" + geek1.id);

}

}

**output:**

GeekName :adam and GeekId :1

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3)

// Java Program to illustrate constructor overloading

// using same task (addition operation ) for different

// types of arguments.

**import** java.io.\*;

**class** Word

{

// constructor with one argument

Word(String name)

{

System.***out***.println("Constructor with one " +

"argument - String : " + name);

}

// constructor with two arguments

Word(String name, **int** age)

{

System.***out***.println("Constructor with two arguments : " +

" String and Integer : " + name + " "+ age);

}

// Constructor with one argument but with different

// type than previous..

Word(**long** id)

{

System.***out***.println("Constructor with one argument : " +

"Long : " + id);

}

}

**class** Main2

{

**public** **static** **void** main(String[] args)

{

// Creating the objects of the class named 'Geek'

// by passing different arguments

// Invoke the constructor with one argument of

// type 'String'.

Word geek2 = **new** Word("Shikhar");

// Invoke the constructor with two arguments

Word geek3 = **new** Word("Dharmesh", 26);

// Invoke the constructor with one argument of

// type 'Long'.

Word geek4 = **new** Word(325614567);

}

}

**output:**

Constructor with one argument - String : Shikhar

Constructor with two arguments : String and Integer : Dharmesh 26

Constructor with one argument : Long : 325614567

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