Class,Object and Packages in Java

```java
Package OOPS;

Public class ClassObj {

Public void display() {

System.out.println("Hello, this is a method in ClassObj."); }

Public void show() { System.out.println("This is show method in ClassObj."); }

Public static void main(String[] args) {

//create an instance of ClassObj

ClassObj obj = new ClassObj();

Obj.display();

Obj.show();

}

}
Package OOPs;

Class Student {

// Data members

String name;

Int age;

// Parameterized Constructor
```

```java
Student(String studentName, int studentAge) {

Name = studentName;

Age = studentAge;

}

// Method to display student details void display() { System.out.println("Age: " + age); }

System.out.println("Name: " + name);

Public static void main(String[] args) {

// Creating objects using parameterized constructors
Student s1 = new Student("Amit", 20);

Student s2 = new Student("Neha", 22);

Student s3 = new Student("Rohan", 21);

S1.display();

System.out.println("----");

S2.display();

System.out.println("----");

S3.display();
 }
```

Addition of two numbers
Public class addconstructr {

```java
Int a;

Int b;

Int sum;

Addconstructr (int num1, int num2) {

A = num1;

B = num2;

Sum = a + b;

}

Void display() {

I

System.out.println("Sum: " + sum);

}

Run | Debug
Public static void main(String[] args) {

Addconstructr obj = new addconstructr (num1:10, num2:20);

Obj.display();

    }
}
//program for single Inheritance

Class Animal {
```

```java
Void eat() { System.out.println("Animal is eating"); }

}

Class Cat extends Animal {

Void meow() {

System.out.println("Cat is meowing"); }

}
```

```java
Public class SingleInheritance {

Public static void main(String[] args) {

//create the object of child class Animal a= new Animal();

a.eat();

//create the object of child class Cat c= new Cat();

c.meow();
// Program for Single Inheritance Example 2

Class Vehicle { void start() { System.out.println("Vehicle is starting"); }

}

Class Bike extends Vehicle {

Void ride() {

System.out.println("Bike is being ridden"); }

}
```

```java
Public class SingleInheritance Example { public static void main(String[] args) {

// Create object of parent class Vehicle v = new Vehicle();

v.start();

// Create object of child class Bike b = new Bike();
```

```java
Class Grandmother {

Void cook() {

System.out.println("Grandmother can cook.");

}

}

Class Mother extends Grandmother {

Void sing() {

System.out.println("Mother can sing."); }

Class Saaili extends Mother {

Void dance() {

System.out.println("Saaili can dance.");

}

}

// Main class

Public class Main {
```

```java
Public static void main(String[] args) {

Saaili s = new Saaili();

s.cook();

s.sing();

s.dance();

}

}
Class one {

Void one1(){

System.out.println("Method one is parent");

}

}

Class Two extends one{

Void Two2(){

Super.one1();

System.out.println("Method Two is child

");

}

}
```

```java
Class three extends one{

Void three3(){

Super.one1();

System.out.println("Method Three is child"); }

}

Public class Day6 {

Public static void main(String[] args) {

Two t1 = new Two();

Three t2 = new three();

T1.Two2();
```