1. **Build a class Student which contains details about the Student and compile and run its instance.**

**package** assignment4;

// Build a class Student which contains details about the Student and compile and run its instance.

**public** **class** Student {

String name;

**int** age;

**long** mobileNo;

**public** Student(){

}

**public** Student(String name, **int** age, **long** mobileNo){

**this**.name = name;

**this**.age = age;

**this**.mobileNo = mobileNo;

}

**void** displayStudent(){

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

System.***out***.println("Age: "+**this**.age);

System.***out***.println("Mobile No: "+**this**.mobileNo);

}

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

Student s1=**new** Student("RAM",25,1111110000);

Student s2=**new** Student("SHAM",26,0000011112);

s1.displayStudent();

s2.displayStudent();

}

}

OUTPUT:

Name: RAM

Age: 25

Mobile No: 1111110000

Name: SHAM

Age: 26

Mobile No: 4682

**2)Write a Vehicle class with overloaded methods that have a different number of parameters. Demonstrate calling these overloaded methods with various numbers of arguments.**

**package** assignment4;

**public** **class** Vehicle {

**void** start()

{

System.***out***.println(" vehicle in motion");

}

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

{

Car car = **new** Car();

car.start();

car.start(1);

}

}

**class** Car **extends** Vehicle

{

**void** start(**int** count)

{

System.***out***.println("Starting " + count );

}

}

Output:

vehicle in motion

Starting 1

**3)Create a class Employee with multiple overloaded methods that have different parameter types (e.g., int, double, String). Demonstrate calling each overloaded method with appropriate arguments.**

**package** assignment4;

**import** java.util.Scanner;

**class** Programe{

**private** String name;

**private** **int** empid;

**private** **float** salary;

**public** **void** acceptRecord( ) {

Scanner sc = **new** Scanner(System.***in***);

System.***out***.print("Name : ");

**this**.name = sc.nextLine();

System.***out***.print("Empid : ");

**this**.empid = sc.nextInt();

System.***out***.print("Salary : ");

**this**.salary = sc.nextFloat();

}

**public** **void** printRecord( ) {

System.***out***.println( **this**.name+" "+**this**.empid+" "+**this**.salary);

}

}

**public** **class** Program {

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

Programe emp1 = **new** Programe();

emp1.acceptRecord( );

emp1.printRecord( );

Programe emp2 = **new** Programe();

emp2.acceptRecord( );

emp2.printRecord( );

Programe emp3 = **new** Programe();

emp3.acceptRecord( );

emp3.printRecord( );

}

}

Output:

Name : ram

Empid : 1

Salary : 50000