**Program 2: Creation of classes and use of different types of functions.**

Create a class overloading that uses a parameterized method to return the value depending upon the return type of that function. Then Create another class ICICIBank and KotMBank return some values, and these classes are inherited to abstract GeneralBank which is Parent class. The class should have a method that can return FixedInterestRate or savingInterestRate. Implement different types of function in main function ().

**package** classdemo;

**abstract** **class** GeneralBank {

**double** getSavingInterestRate() {

System.***out***.println("GeneralBank Saving Interest");

**return** 0.0;

}

**abstract** **double** getFixedInterestRate();

}

**class** ICICIBank **extends** GeneralBank{

**double** getSavingInterestRate() {

System.***out***.println("ICICIBank Saving Interest");

**return** 4.0;

}

**double** getFixedInterestRate() {

System.***out***.println("ICICIBank Fixed Interest");

**return** 8.4;

}

}

**class** KotMBank **extends** GeneralBank{

**double** getSavingInterestRate() {

System.***out***.println("KotMBank Saving Interest");

**return** 6.0;

}

**double** getFixedInterestRate() {

System.***out***.println("KotMBank Fixed Interest");

**return** 9.0;

}

}

**class** vehicle {

**void** run() {

System.***out***.println("Vehicle is running");

}

}

**class** bike **extends** vehicle {

**void** run() {

System.***out***.println("Bike is running safety");

}

}

**class** car **extends** vehicle {

}

**public** **class** overloading {

**static** **long** sum(**int** a,**long** b) {

**return** a+b;

}

**static** **int** sum(**int** a,**int** b,**int** c) {

**return** a+b+c;

}

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

System.***out***.println("Method Overriding:-");

ICICIBank obj1=**new** ICICIBank(); //overriding

System.***out***.println("ICICI::");

System.***out***.println(obj1.getFixedInterestRate());

System.***out***.println(obj1.getSavingInterestRate());

KotMBank obj2=**new** KotMBank();

System.***out***.println("\nKotMBank::");

System.***out***.println(obj2.getFixedInterestRate());

System.***out***.println(obj2.getSavingInterestRate());

GeneralBank obj3=**new** ICICIBank();

System.***out***.println("\nGeneralBank refer to ICICI Bank::");

System.***out***.println(obj3.getFixedInterestRate());

System.***out***.println(obj3.getSavingInterestRate());

obj3=**new** KotMBank();

System.***out***.println("\nGeneralBank refer to KotM Bank::");

System.***out***.println(obj3.getFixedInterestRate());

System.***out***.println(obj3.getSavingInterestRate());

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

car c=**new** car();

c.run();

bike b=**new** bike();

b.run(); //overriding

overloading ob=**new** overloading();

System.***out***.println("\nMethod Overloading:-");

System.***out***.println(ob.*sum*(10,500));

System.***out***.println(ob.*sum*(10,20,30));

}

}

**Output: -**

