**//interface example**

**interface** interface1{ //abstract

**void** m1(); //public abstract

**void** m2();

}

**public** **class** InterfaceClass **implements** interface1{

**public** **void** m1() {

System.***out***.println("m1()");

}

**public** **void** m2() {

System.***out***.println("m2()");

}

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

InterfaceClass ic=**new** InterfaceClass();

ic.m1();

ic.m2();

interface1 i1=**new** InterfaceClass();

i1.m1();

i1.m2();

}

}

**//in any class is unable to implements all interface methods then declare that class as abstract class and use one more class for remaining method implementation**

**interface** interface1{ //abstract

**void** m1(); //public abstract

**void** m2();

}

**abstract** **class** InterfaceClass1 **implements** interface1{

**public** **void** m1() {

System.***out***.println("m1()");

}

}

**public** **class** InterfaceClass **extends** InterfaceClass1{

**public** **void** m2() {

System.***out***.println("m2()");

}

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

InterfaceClass ic=**new** InterfaceClass();

ic.m1();

ic.m2();

//interface1 i1=new InterfaceClass();

//i1.m1();

//i1.m2();

}

}

**//interface methods can have any return type and any number of arguments**

**interface** interface1{ //abstract

**int** m1(**int** a); //public abstract

**int** m1(**int** a,**int** b);

}

**public** **class** InterfaceClass **implements** interface1{

**public** **int** m1(**int** a) {

**return** a;

}

**public** **int** m1(**int** a,**int** b) {

**return** a+b;

}

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

InterfaceClass ic=**new** InterfaceClass();

**int** a=ic.m1(10);

**int** a1=ic.m1(10,10);

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

System.***out***.println(a1);

//interface1 i1=new InterfaceClass();

//i1.m1();

//i1.m2();

}

}

**//multiple inheritance using interface**

**interface** home{

**void** homeLoan();

**void** m1(); //common method

}

**interface** car{

**void** m1();

**void** carLoan();

}

**public** **class** Loan **implements** home,car {

**public** **void** m1()

{

System.***out***.println("m1()");

}

**public** **void** homeLoan()

{

System.***out***.println("home loan ");

}

**public** **void** carLoan(){

System.***out***.println("car loan");

}

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

Loan l =**new** Loan();

l.homeLoan();

l.carLoan();

}

}