```
//Single Inheritance
class Father {
public void house() {
System.out.println("Have Own 2BHK House.");
}
class Son extends Father
{
public void car()
System.out.println("Have Own Audi car.");
}
}
class single_inheritance {
public static void main(String[] args) {
Son o = new Son();
o.car();
o.house();
}
}
output:
Have Own Audi car.
Have Own 2BHK House.
```

```
//Multilevel Inheritance in java
class GrandFather {
public void house() {
System.out.println("3 BHK House.");
}
class Father extends GrandFather {
public void land() {
System.out.println("5 Arcs of Land.");
}
}
class Son extends Father {
public void Car() {
System.out.println("Own Audi car.");
}
class multilevel {
public static void main(String[] args) {
Son o = new Son();
o.Car();
o.house();
o.land();
}
```

```
}
output:
Own Audi car.
3 BHK House.
5 Arcs of Land.
//Example for Abstract class
abstract class Mobile{
void VoiceCall(){
System.out.println("You can Make Voice Call");
}
abstract void camera();
abstract void touchDisplay();
}
class samsung extends Mobile {
void camera() {
System.out.println("64 Mega pixel Camera");
}
void touchDisplay() {
System.out.println("5.5 inch Display");
}
```

```
void fingerPrint() {
System.out.println("In the Display fast finger sensor");
}
}
class Nokia extends Mobile
void camera(){
System.out.println("2 Mega pixel Camera");
}
void touchDisplay(){
System.out.println("4.8 inch Display");
}
}
class abstractDemo2 {
public static void main (String args[]){
samsung M32 = new samsung();
M32.VoiceCall();
M32.touchDisplay();
M32.camera();
M32.fingerPrint();
System.out.println("....");
Nokia N1 = new Nokia();
N1.VoiceCall();
N1.touchDisplay();
N1.camera();
```

```
}
}
output:
You can Make Voice Call
5.5 inch Display
64 Mega pixel Camera
In the Display fast finger sensor
.....
You can Make Voice Call
4.8 inch Display
2 Mega pixel Camera
//Interface
class Phone{
void voicecall(){
System.out.println("Make Voicecalls");
}
void sms(){
System.out.println("We can send sms");
}
}
interface Camera{
void click();
void record();
```

```
}
interface Player{
void play();
void pause();
void stop();
class Smartphone extends Phone implements Camera, Player
{
public void click(){
System.out.println("You Can make multiple click");
}
public void record(){
System.out.println("You can record Videos");
}
public void play(){
System.out.println("Play the songs");
}
public void pause(){
System.out.println("Pause the songs");
}
public void stop(){
System.out.println("you have options to stop the song");
}
}
class interfaceDemo2 {
```

```
public static void main(String [] args){
Smartphone o = new Smartphone();
o.voicecall();
o.sms();
o.click();
o.record();
o.play();
o.pause();
o.stop();
}
}
output:
Make Voicecalls
We can send sms
You Can make multiple click
You can record Videos
Play the songs
Pause the songs
```