

Abstract classes in JAVA:-

- In JAVA, a separate keyword `abstract` is used to make a class abstract.
- Abstract class is a restricted class that cannot be used to create objects.
(to access it, it must be inherited from another class).

(Abstract class)

```
abstract class Shape
```

```
{
```

```
    int color;
```

```
    abstract void show();
```

```
}
```

- An object of Abstract class cannot be created.
- Constructors are allowed.
- We can have abstract class without any abstract method.

Program:-

```
abstract class Base
{
    abstract void fun();
}

class derived extends Base
{
    void fun()
    {
        System.out.println("It is derived class");
    }
}

class Main
{
    public static void main (String args [])
    {
        Base b = new derived ();
        b.fun ();
    }
}
```

Output:-

It is Derived class.