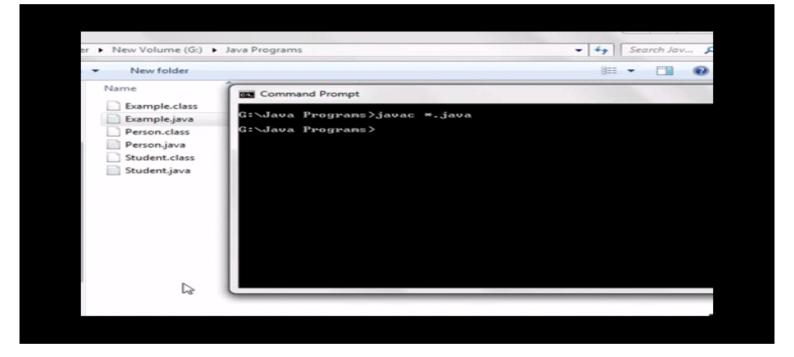


Syntax

```
class <u>SubClass</u> extends <u>SuperClass</u>
{
}
```

- extends is a keyword
- Base class means Super Class
- Derived Class means Sub Class





```
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class Student extends Person
{
  private int rollno;
  public void setRollno(int r)
  { rollno=r; }
  public int getRollno()
  { return(rollno); }
}
```

```
File Edit Format View Help

public class Person
{
    private int age;
    private String name;
    public void setAge(int a)
    {age=a;}
    public void setName(String n)
    {name=n;}
    public int getAge()
    { return(age); }
    public String getName()
    { return(name); }
}
```

```
File Edit Format View Help

public class Example

{
  public static void main(String []args)
  {
    Student s1=new Student();
    s1.setRollno(100);
    s1.setName("Rahul");
    s1.setAge(18);
    System.out.println("Rollno: "+s1.getRollno());
    System.out.println("Name: "+s1.getName());
    System.out.println("Age: "+s1.getAge());
}
}
```

Remember

- In the Java programming language, each class is allowed to have one direct superclass, and each superclass has the potential for an unlimited number of subclasses
- Private members of the superclass are not accessible by the subclass and can only be indirectly accessed.
- Members that have default accessibility in the superclass are also not accessible by subclasses in other packages

Java Supports Single Inheritance Multilevel Inheritance Hierarchical Inheritance

