

Assignment Inheritance

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1. Create a JAVA program applying inheritance with classes $A \leftarrow B \leftarrow C \leftarrow D \leftarrow E$. Each class should contain a method which will display text. From the main class display all the text by calling all the methods.

Program: *(without using keyword super)*

```
class A {

    static void printA() {

        System.out.println("\nShe walks in beauty, like the night");

    }

}

class B extends A {

    public void printB() {

        printA();
        System.out.println(" Of cloudless climes and starry skies;");

    }

}

class C extends B {

    static void printC() {

        C obj = new C();

        obj.printB();
        System.out.println("And all that's best of dark and bright");

    }

}

class D extends C {

    public void printD() {

        printC();
        System.out.println(" Meet in her aspect and her eyes:");

    }

}

class E extends D {

    static void printE() {

        E obj = new E();

        obj.printD();
        System.out.println("Thus mellowed to that tender light");

    }

}

public class program extends E {

    public static void main(String args[]) {

        printE();

    }

}
```

```

        System.out.println("  Which heaven to gaudy day denies.\n");
    }
}

```

Output:

```

She walks in beauty, like the night
  Of cloudless climes and starry skies;
And all that's best of dark and bright
  Meet in her aspect and her eyes:
Thus mellowed to that tender light
  Which heaven to gaudy day denies.

```

Program: *(using keyword super)*

```

class A {

    public void print() {

        System.out.println("\nShe walks in beauty, like the night");
    }
}

class B extends A {

    public void print() {

        super.print();
        System.out.println("  Of cloudless climes and starry skies;");
    }
}

class C extends B {

    public void print() {

        super.print();
        System.out.println("And all that's best of dark and bright");
    }
}

class D extends C {

    public void print() {

        super.print();
        System.out.println("  Meet in her aspect and her eyes:");
    }
}

class E extends D {

    public void print() {

        super.print();
        System.out.println("Thus mellowed to that tender light");
    }
}

public class program extends E {

    public static void main(String args[]) {

```

```
        program obj = new program();  
  
        obj.print();  
        System.out.println("  Which heaven to gaudy day denies.\n");  
    }  
}
```

Output:

```
She walks in beauty, like the night  
  Of cloudless climes and starry skies;  
And all that's best of dark and bright  
  Meet in her aspect and her eyes:  
Thus mellowed to that tender light  
  Which heaven to gaudy day denies.
```