

PA 22 Shah Deepak

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Problem Statement 17

Write a java program to implement multiple inheritance also demonstrate use of static and final variable

Code:

```
package problemStatement17;

public class Practicalexam {

    static int static_number = 106;
    int otherno = 555;

    public static void main (String[] args) {

        Child object = new Child();
        object.eyes();
        object.height();
        object.motherinterface();
        object.colour();
        object.beard();
        object.fatherinterface();

        System.out.println("The Static Variable is: "+static_number);

        //      System.out.println("The other variable is: "+otherno);
        System.out.println("The above comment shows an error as we can't access the non-
static number inside our main function");

        final int final_var = 5;
        System.out.println("The Final Variable is: "+final_var);
        //      final_var = 10;
        //      System.out.println("Updated Final Variable: " +final_var);
        System.out.println("The above comment will throw an error as we can't change the value
of final variable");

    }

}

interface Mother {
    void eyes();
    void colour();
    void motherinterface();
}

interface Father {
```

```

    void height();
    void beard();
    void fatherinterface();
}

class Child implements Mother, Father {

    public void eyes() {
        System.out.println("Blue eyes");
    }

    public void height() {
        System.out.println("Height is 6 feet");
    }

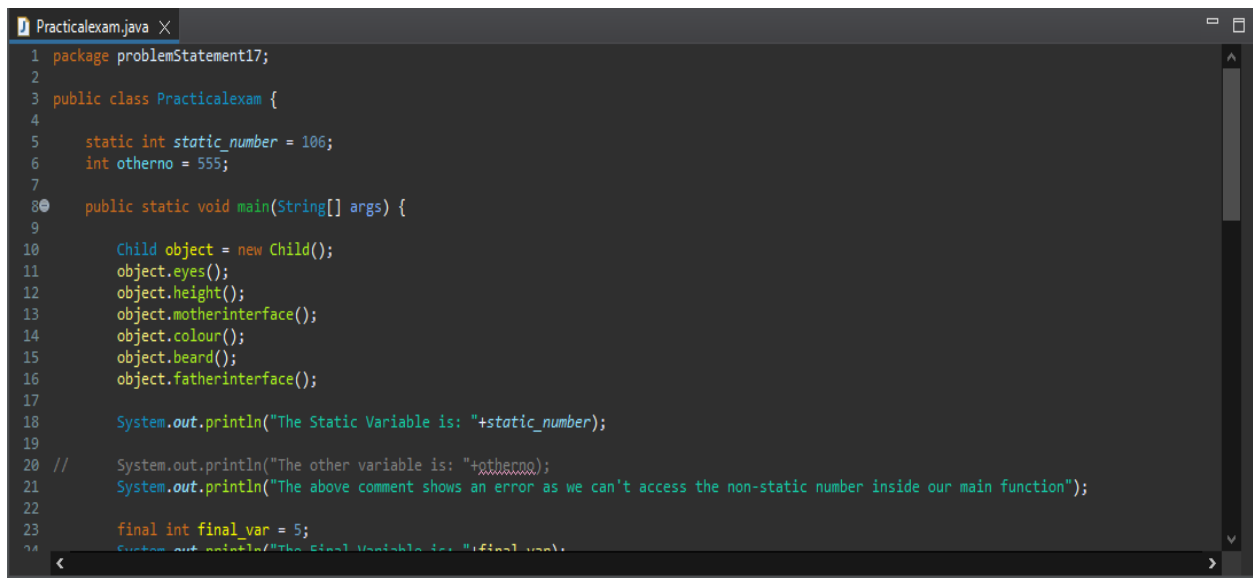
    public void motherinterface() {
        System.out.println("The above methods are from mother interface");
    }

    public void colour() {
        System.out.println("Brown Coloured");
    }

    public void beard() {
        System.out.println("Normal beard");
    }

    public void fatherinterface() {
        System.out.println("The above methods are from father interface");
    }
}

```



```

Practicaexam.java X
1 package problemStatement17;
2
3 public class Practicaexam {
4
5     static int static_number = 106;
6     int otherno = 555;
7
8     public static void main(String[] args) {
9
10        Child object = new Child();
11        object.eyes();
12        object.height();
13        object.motherinterface();
14        object.colour();
15        object.beard();
16        object.fatherinterface();
17
18        System.out.println("The Static Variable is: "+static_number);
19
20        // System.out.println("The other variable is: "+otherno);
21        System.out.println("The above comment shows an error as we can't access the non-static number inside our main function");
22
23        final int final_var = 5;
24        System.out.println("The Final Variable is: "+final_var);
25    }
26 }

```

```
Practicaexam.java X
22
23     final int final_var = 5;
24     System.out.println("The Final Variable is: "+final_var);
25     final_var = 10;
26     // System.out.println("Updated Final Variable: " +final_var);
27     System.out.println("The above comment will throw an error as we can't change the value of final variable");
28
29 }
30
31 }
32
33 interface Mother {
34     void eyes();
35     void colour();
36     void motherinterface();
37 }
38
39 interface Father {
40     void height();
41     void beard();
42     void fatherinterface();
43 }
44
```

```
Practicaexam.java X
45 class Child implements Mother,Father {
46
47     public void eyes() {
48         System.out.println("Blue eyes");
49     }
50
51
52     public void height() {
53         System.out.println("Height is 6 feet");
54     }
55
56     public void motherinterface() {
57         System.out.println("The above methods are from mother interface");
58     }
59
60     public void colour() {
61         System.out.println("Brown Coloured");
62     }
63
64     public void beard() {
65         System.out.println("Normal beard");
66     }
67
68 }
```

Output:

```
Problems Javadoc Declaration Console X
<terminated> Practicaexam [Java Application] C:\Users\computer\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (May 25, 2022, 11:49:41 AM)
Blue eyes
Height is 6 feet
The above methods are from mother interface
Brown Coloured
Normal beard
The above methods are from father interface
The Static Variable is: 106
The above comment shows an error as we can't access the non-static number inside our main function
The Final Variable is: 5
The above comment will throw an error as we can't change the value of final variable

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```