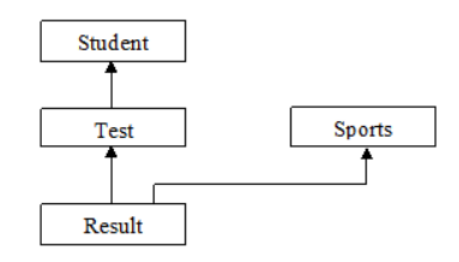
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| NAME: Ayush Vinod Upadhyay  ROLL NO: I025  SAP ID: 60003220131  BRANCH: Information Technology  BATCH: 1 |

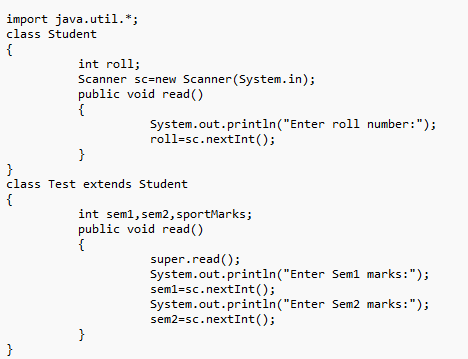
**EXPERIMENT NO – 8**

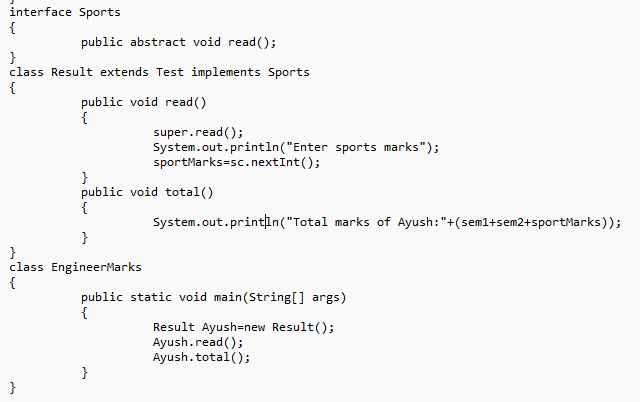
Aim: To implement multiple inheritance using interfaces and method overriding.

Problem Statement 1: WAP to implement three classes namely Student, Test and Result. Student class has member as rollno, and read(). Test class has members as sem1\_marks and sem2\_marks and read(). Result class has member as total. Create an interface named sports that has a member score (). Derive Test class from Student and Result class has multiple inheritances from Test and Sports. Total is formula based on sem1\_marks, sem2\_mark and score.

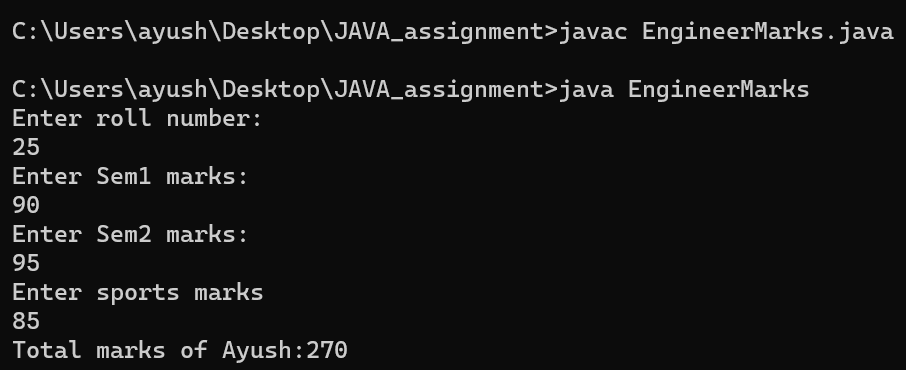


**CODE**

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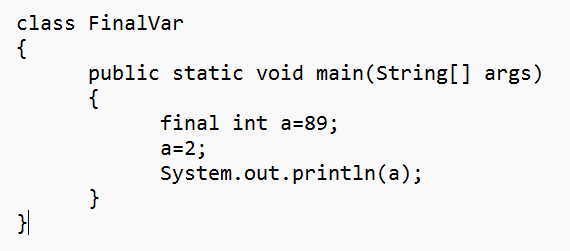
**OUTPUT**

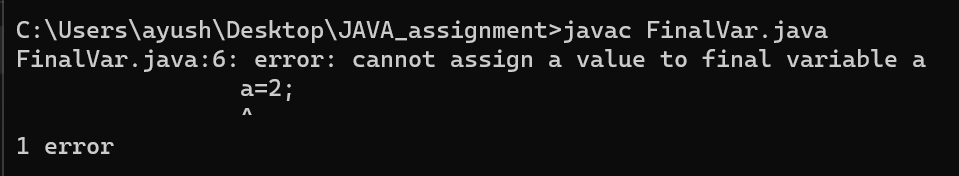
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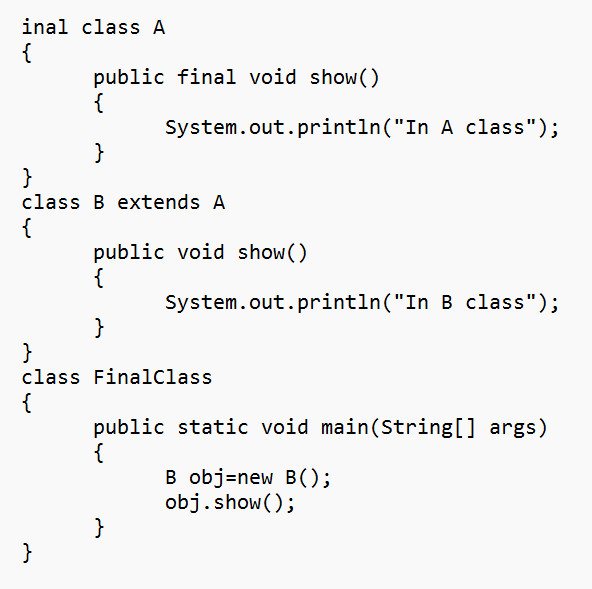
**Problem Statement 2:**

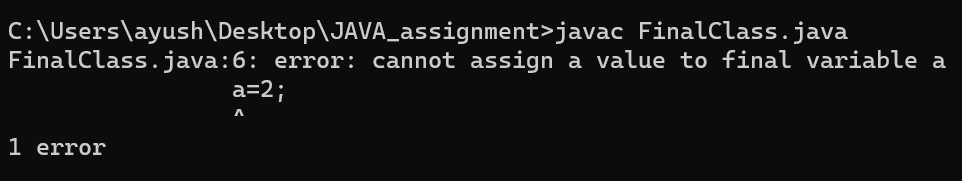
Demonstrate that a variable is constant, method cannot be overridden, class cannot be inherited using final keyword

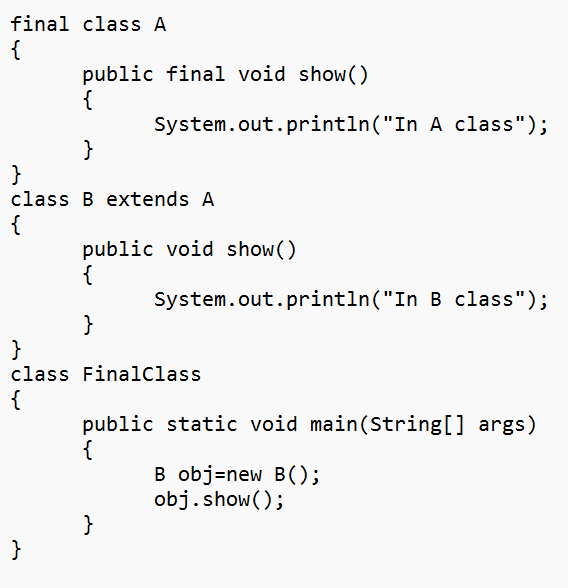
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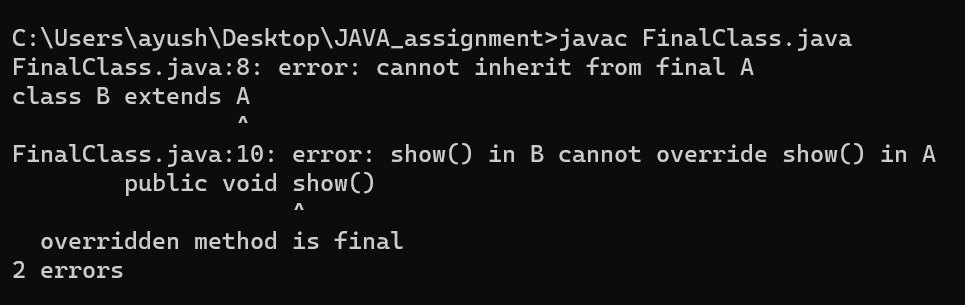


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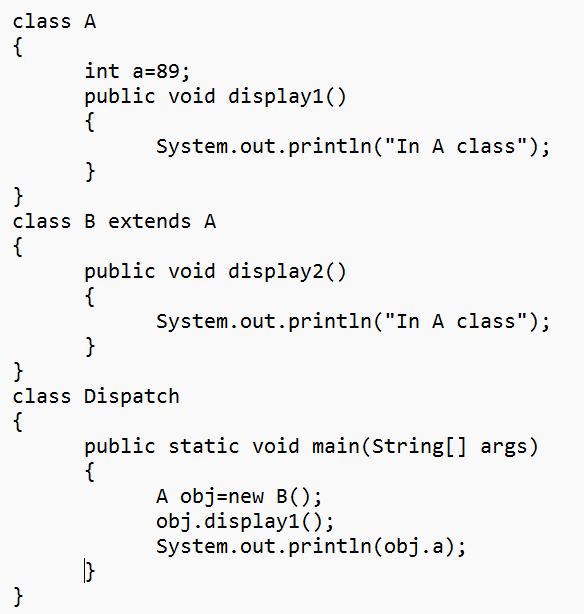
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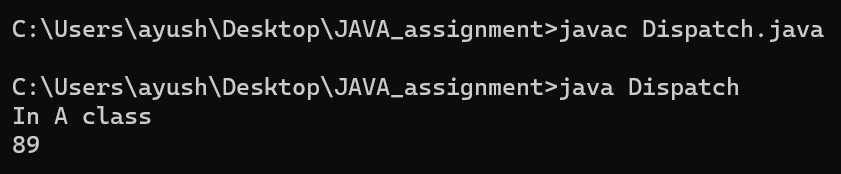
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**Problem Statement 3**:

Demonstrate using a suitable example that a base class reference variable can point to a child class object using the concept of dynamic method dispatch.

CODE:

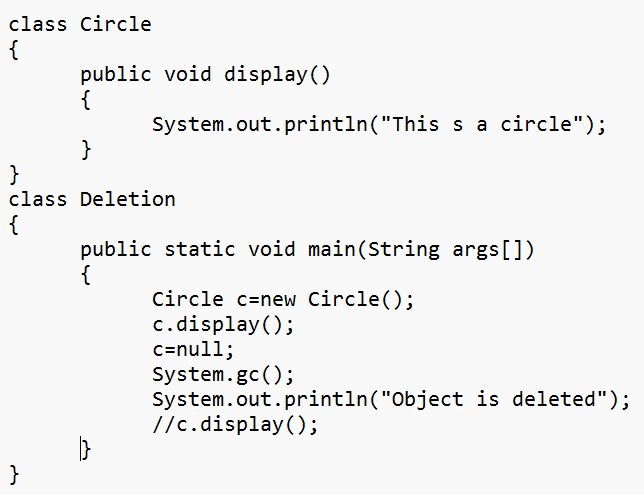


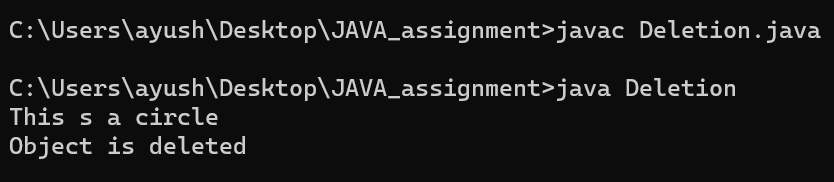
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**Problem Statement 4:**

WAP to create an object of a class, delete the same object by calling System. gc () and display a message that the “object has been deleted”.

CODE:



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