Instructions:

Below you will find a series of assignments that you will complete in this exercise. You will need to create a new project folder for this task and name it **Java_Assignment_6_Keywords**. You can use the default settings when creating the new project.

For each of the below assignments you will create new classes as specified below. You can keep them in the default package.

Most classes will NOT declare a main() method except for the Application.java file that you will write for a package. In your assignments, you will execute the main() method of the Application.java file.

Assignments

- Create a package com.mycompany.main to place your files in.
 Create a class named StaticClass. Write a static method that computes the sum of two floating point numbers. Use this method in an Application class, to compute the sum of two numbers that you pass to your static method.
- Create a class named FinalClass and define an instance variable, myConstant. Use the final keyword to mark the instance variable as final. This makes it a constant. Add a statement to your Application class to print the value of this constant.
- Write a class named AbstractClass and declare it abstract. It should have an abstract method run().
 Declare another class ConcreteClass and it should extend AbstractClass. Implement the run() method.
 In the Application class, add a statement to create an instance of ConcreteClass and then call the run() method.

Goal:

The purpose of this assignment is to provide you practice with writing classes that use the keywords, static, final and abstract. You will utilize the **main()** method of your classes to execute a particular goal of the assignment. This main() method should be implemented in a Main.java file.

By the end of this assignment, you will have 1 new project folder with 3 classes that meet the requirements mentioned above.

Helpful Notes

Project Structure:

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Java - Java_Assignment_6_Keywords/src/com/mycompany/main/Application.java - Edipse
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                            □ ② Applicationjava ∷ ② StaticClassjava ② FinalClassjava ② AbstractClassjava ② ConcreteClassjava 1 package com.mycompany.main;
                                                                                                                                         □ 🔡 Outline 🖾
Package Explorer 23
                                                                                                                                              # com.mycompany.main✓ G<sub>r</sub> Application
                                      public class Application {
                                                                                                                                                  • s main(String[]): void
                                           public static void main(String[] args) {

▼ # com.mycompany.main

      > 🛭 AbstractClass.java
      > 🛭 Application.java
      > 

ConcreteClass.iava
      > 

StaticClass.java
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```

Your project structure should resemble the above. Note that the name of the project is
 Java_Assignment_6_Keywords and all class files are named according to the associated assigned number

Assignment Classes:

Notice the indentation of the statement on line 5 to show that it is part of the main() method. Likewise, your code should follow this pattern.