Packages

1. Add the classes Student & Faculty into stud & fact packages resp. Faculty has getStudentMarks(int roll\_no) method. Call this method from Student class. Also test all access specifiers i.e. private, package scope, protected & public.

String, StringBuffer & StringBuilder

1. Try two ways of creating the string: A) String s = "ABC"; B) String s = new String("ABC"); Understand the difference between them by using == & equals() method.
2. Write a program to prove that class String is immutable & StringBuffer/ StringBuilder is mutable.
3. Print a running banner "Welcome to Java" on the console using StringBuffer or StringBuilder.

Reflection

1. Write a class that displays information about the constructor, fields & methods of a class passed as command line argument.
2. Write a class Middleware with the invokeMethod(--) function. Use this function for calling any method on any class.
3. Pass the class name as command line argument. Write a program to instantiate that class. Note that sometimes the class may have only parameterized constructor.
4. Call a private field and private method of a class using reflection. (Refer: AccessibleObject). Now set java policy to stop reflection APIs execution & again run the private field access code. It should throw security exception.