**Assignment -6**

**Topic:** Interface, package

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| 1 | Define an interface Calculator which has the basic methods add(), sub( ), mul() and div(). Define a concrete class named as DemoCalculator that implements the interface. Define the driver class, which create object reference of the interface Calculator and perform all basic operation of the calculator. |
| 2 | Write a java program to achieve multiple inheritance by implementing interfaces. |
| 3 | Write a java program to achieve multiple inheritance by extending interfaces. |
| 4 | Create a Package ***btech*** which has one class ***Student***. Accept student detail through parameterized constructor of ***Student*** class. Write a method ***display***() to display the student details. Create anotherTest.java class ***Test*** containing the main method which will use the package ***btech*** and calculate total marks and percentage of marks. |
| 5 | Create a sub-package called ***arithmetic*** under the package ***btech***. The ***arithmetic*** package should contain a class ***MyMath*** having methods to deal with different arithmetic operations (addition, subtraction, multiplication, division and mod). Create a class ***Test*** containing the main method which will use the methods of sub-package ***arithmetic***. |