Java Concept 68

Methods	Can be	Can Not be
abstract methods		static
non abstract methods	static	

```
1 abstract class Calculate
2 {
3   //abstract method
4   abstract int sum(int a, int b);
5   //non - abstract method
6   int add(int a, int b){ return (a+b);}
7 }
```

```
//Making abstract and non abstract method static // Error
   abstract class Calculate
3
     static abstract int sum(int a ,int b); //Error
5
    static int add(int a, int b){return (a+b);} // No Error
6
7
  class JavaConcept
8
     public static void main(String[] args)
9
10
11
12
        }
13 }
      Complie Error- error: illegal combination of modifiers: abstract and static
                      static abstract int sum(int a ,int b);
run:
BUILD SUCCESSFUL (total time: 0 seconds)
```

```
//Making abstract and non abstract method static
  // Compile time Error //Runtime Error
3
  abstract class Calculate
4
5
    static abstract int sum(int a ,int b); //Error
    static int add(int a, int b){return (a+b);} // No Error
6
7
8
  class JavaConcept extends Calculate
9
10
    static int sum(int a, int b){return (a+b);}
     public static void main(String[] args)
11
12
       {
13
          System.out.println(JavaConcept.sum(10, 10));
       }
14
15 }
```

Compile time error :- illegal combination of modifiers: abstract and static static abstract int sum(int a ,int b); //Error

Runtime error : - sum(int,int) in javaconcept.JavaConcept cannot override sum(int,int) in javaconcept.Calculate overriding method is static