

### 1. Program on local variables

```
Import java.util.*;
class LocalVariable{
    void showMessage() {
        String message = "Hello, I am a local variable!";
        System.out.println(message);
    }
    public static void main(String[] args) {
        LocalVariable obj = new LocalVariable();
        obj.showMessage();
    }
}
```

Output:

Hello, I am a local variable!

### 2. Program on static variables

```
Import java.util.*;
class StaticVariable {
    static int count = 0;
    StaticVariableExample() {
        count++;
    }
    public static void main(String[] args) {
        StaticVariable obj1 = new StaticVariable();
        StaticVariable obj2 = new StaticVariable();
        StaticVariable obj3 = new StaticVariable();
        System.out.println("Number of objects created: " + count);
    }
}
```

Output:

Number of objects created: 3

### 3. Program on instance variables

```
Import java.util.*;
```

```
class InstanceVariable
{
    String studentName;

    int studentAge;

    InstanceVariable(String name, int age) {
        studentName = name;
        studentAge = age;
    }

    void display() {
        System.out.println("Name: " + studentName + ", Age: " + studentAge);
    }

    public static void main(String[] args) {
        InstanceVariable s1 = new InstanceVariable("Manasa", 22);
        InstanceVariable s2 = new InstanceVariable("Neeva Sharma", 23);
        s1.display();
        s2.display();
    }
}
```

Output:

Name: Manasa, Age: 22

Name: Neeva Sharma, Age: 23