List of Concepts Involved:

- Object Creation
- Instance variable v local variable
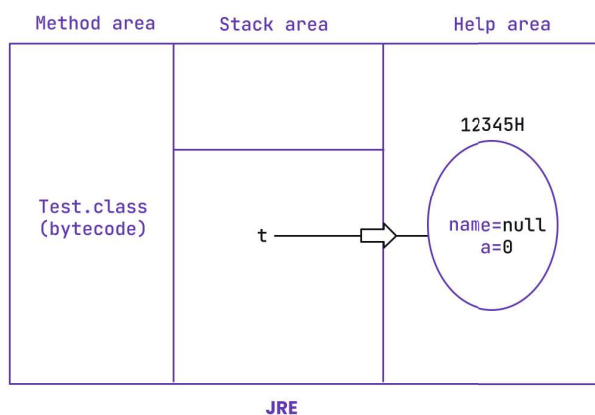- Methods with Memory Map(JVM area)
- Method Overloading

Topic 1: Object Creation

1. We can use the "new" operator to create an object.
2. There is no "delete" operator in java because destruction of useless objects is the responsibility of the garbage collector.

```
class Test
{
     String name;
     int a;
     public static void main(String[] args) {
          Test t = new Test();

     }
}
```

Behind the scenes of Object Creation

1. new operator is a keyword which is used to create the Object.
2. When we say new operator , JVM would allocate memory on the heap area.
3. JVM will load the supplied class name data into the method area.
4. JVM will initialise the memory of instance variables.
5. JVM will set the default value for instance variables based on the data type.Once the memory is set then the address of the object will be stored inside the reference variable.

Note:

new is an operator to create an object , if we know the class name at the beginning then we can create an object by using new operator.