Reference vs primitive:

Here a & b are two primitive variables both are independent of each other

```
% 3⊖ import java.awt.Point;¤¶
                                                            🍇 4 import java.util.Date; 🖫
                                                                        6 public class Variables { 49
                                                                                                   public.static.void.main(String[]-args)-{H9}

» int.g=30;-//.data.type.identifier.assignment.operator.valueH9

» int.b=31;H9
                                                                                                                       a=32;¤¶
aged-services de
                                                                                                                        System.out.println("variable-b-value-is-:-"+b);
velop]
                                                              12 » }¤ៗ
                                                                  14 »
                                                                                                    /**In Java, reference types are data types that store references or memory MU

* addresses of objects rather than the actual values. When a variable of and

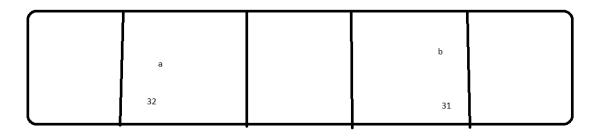
* reference type is declared, it contains a reference to an object, but the MU

* actual object is not created until the new operator is used to create it. MU
                                                                   17
                                                                  20 }¤¶
21
                                                              Problems @ Javadoc Q Declaration → Progress ☐ Console × → Gradle Tasks → Gradle Executions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 S = X 🗞 | 🗟 🚮
                                                              < terminated > Variables \textit{[Java Application] C:(Users\ashfaq.adeni\Downloads\sts-4.17.2.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v20230125-1136}\strut_{17.0.6.v
                                     > variable b value is : 31
                                    - -
```

Memory allocation will be as follows for primitive data types:

They directly hold the value in the memory

Stack memory



But in case of Reference variables:

Here both point 1 and point 2 are dependent on each other a slight change in point1 will effect point 2 and memory allocation will be as follows both point 1 and point 2 will hold the memory address of point (1,1)

