Q1 > What is the difference between the static and the non-static variables of a class explain it with an example?

Answer: The static variable will be loaded into RAM before execution directly hence they will be available for the CPU for the execution.

While non-static variables will not be present in the RAM before execution directly & will be stored in the secondary memory like Hard Disk or SSD.

Hence we cannot use the non-static variable directly for the execution, we have to load it into the RAM dynamically first if we want to use them.

Eg: Variables with Static written in front are Static Variables.

```
int roll;
                                      Non-Static Variables
       String name;
       int marks;
       void displayStudentDetails() {
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           System.out.println("Roll is : "+roll);
           System.out.println("Name is : "+name);
           System.out.println("Marks is: "+marks);
       public static void main(String[] args) {
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           Student s1 = new Student();
           s1.roll = 45;
           s1.name = "Vishal Singh";
           s1.marks = 90;
           s1.displayStudentDetails();
           s1 = null;
           Student s2 = s1;
           s2.roll = 12;
           s2.name = "Elon Musk";
           s2.marks = 98;
           s2.displayStudentDetails();
           s2 = null;
```