Java programming - Tutorial no 01 Consider the following java program and answer to all the question bellow,

```
1
        import java.util.Scanner;
2
        public class Details {
                 public static void main(String[] args){
3
4
                         Name n=new Name();
5
                         n.setName();
6
                         Greeting g= new Greeting();
7
                         System.out.println(g.nameWithGreeting(n.getName()));
8
                 }
9
10
        class Name{
                 String name;
11
12
                 Scanner sc = new Scanner(System.in);
13
                 public String getName(){
14
                         return name;
15
                 public void setName(){
16
                         System.out.print("Enter your name: "); Ushani
17
18
                         name=sc.nextLine();
19
                 }
20
        }
21
        class Greeting{
22
                 String greetMessage="Hello, nice daya to you";
23
                 public String nameWithGreeting(String name){
24
                         return greetMessage+" "+name;
25
26
        }
Q1.
        What is the output?
Q2.
        How many classes have been used? Name them?
        How many class have been declared in this source file? Name them?
Q3.
Q4.
        How many classes have been used in this program that are in javaAPI? Name them and list
                                                                                                      the packages
        that they belong to?
Q5.
        How many primitive variables have been used? Name them with the variable type?
Q5.
        How many reference variables have been used? Name them with the variable type?
Q6.
        Name the global variables separately have been used in the classes of the source file?
Q7.
        Name the local variables separately have been used in the classes of the source file?
Q8.
        How many methods have been used in the program? Name them?
Q9.
        What methods of them are in java API? And What are the API classes they are at?
Q10.
        How many methods have been declared in this source file? Name them?
Q11.
        Name all the method that return a value when they call? And mention the return value types?
        Name all the methods that take values as parameters? And mention the value types?
Q12.
Q13.
        What are the packages use in the program? And list the classes that belong to each package?
```

Additional Questions on java language:

- Q15. All most all programs have some kinds of building blocks. What are the building blocks of a java source code file.
- Q16. What are the elements of a java class? And how java introduces those elements?

Using the line numbers show the execution order of the program?

- Q17. What is the relationship between a class and it's object.
- Q18. What is a java source code file?
- Q19. What is a java program?

Q14.

- Q20. List primitive data types and their capacity in bits and bytes?
- Q21. How java compiler treats local and global variables at compile time?
- Q22. short and char data types take same capacity. But what are the differences?
- Q23. Mention the default values of java global variables and how the default values are assigned to global variables?
- Q24. What are the access levels can be set to class members?
- Q25. What are the access modifiers that use to set access levels of class members?

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