

Assignment - 6

Que 1 Method Overloading -
multiple method within same class
but diff. parameter list

Ex -

```
class MethodOverloading {  
    public static void main(String[] args) {  
        MethodOverloading mo = new MethodOverloading();  
        System.out.println(mo.add(10, 20));  
        System.out.println(mo.add(10, 20, 30));  
    }  
    public int add(int x, int y) {  
        return x + y; }  
    public int add(int x, int y, int z) {  
        return x + y + z; }  
}
```

In this ex. the 1st method take
two parameter and 2nd method take
three parameter

Que 2 Rules for Method Overloading -

- 1) should be done in same class
- 2) parameter or datatype should be diff.

Compiler determine which method is
to be execute on the basis of
argument passed.

Ques 3 **Static keyword** -
Used with class level variable,
block method
Not to used with local variable
It belongs to class not to object
i.e., we can access it using classname

Difference -
Static - It is initialized when class loaded into memory. It can access using classname
static member can only access other
~~non~~ - static member with same class

Non-Static - It is initialized when each instance of a class is created.
It can access using reference variable
It can access both static &
non static in same class.

Ques 4 static method cannot be override
whereas non static method can override
It can share across multiple
instance by using class name.

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Que 5 When variable is declared as static then single copy of variable is created & shared among all.

It can be used to refer for common property or value for all object for ex - Company name, college name, Bank name. etc

Que 6 If we make any ref. variable final then we can't modify, reassign or make it null.

Local variable can't allow with static

Que 7 It cannot be overridden method. cannot be change by sub class.

The final keyword affect that we can't modify any value or can't be assign to null.

Que 8 This -

this is a keyword in java it can accessible only inside instance block

It always point to currently involved object

In a constructor it is used to refer the variable instance variable even when there is a naming conflict

Que 9 **Narrowing :**

Converting a higher data type into a lower data type
Double - float - long - int - short - byte.

Widening :

Converting a lower datatype into a higher data type
byte - short - int - long - float - double

Que 10 - **Narrowing - widening**

`int myInt = (int)myDouble;` | `double myDouble = myInt;`

In this double is converted into int | In this ^{int}double is converted into double

Que 11 In java when narrowing is performed there might be some precision loss. We need to explicitly specify the conversion

Que 12 It is also known as implicit type conversion. It automatically assigns a smaller data-type without any explicit casting