

## SESSION 4

### ASSIGNMENT 1

**TASK 7 - Can you overload a method with same return type.? Explain your answer with proper logic.**

**Solution - The compiler does not consider return type when differentiating methods, so you cannot declare two methods with the same signature even if they have a different return type.**

**It will generate compilation error. Refer to example below**

```
public class Main
{
    public int foo() { return 10; }

    // compiler error: foo() is already defined
    public char foo() { return 'a'; }

    public static void main(String args[])
    {
    }
}
```