Question:

You are responsible to write a program to enter an employee detail into a database using Java. There are 3 elements of an employee which is their name (**name**), tax number (**taxNo**) and employee ID (**id**). The **default values** for the 3 elements when it is not known should be **name = "John Doe" , taxNo = 9999, id = 1111**.

Requirement:

- **Employee class**. Create an abstract class called **Employee** with generic type **ID**, representing a general employee. It includes common attributes and methods such as **name**, **taxNo**, and **introduce**. In the abstract class, you are required to create constructors (constructor overloading and explicit constructor invocation) which initializes the variables. In each constructor, print out "Constructor X is running…." where X is the index of constructors, i.e., X = {1,2,3,4}. You should also create a method **introduce()** that should prints out the sample output. {6 marks}

- **EmployeeTesla class**. Create a generic class **EmployeeTesla** that extends **Employee**, e.g., EmployeeTesla<ID> extends Employee<ID>. In the generic class, you are required to create constructors (constructor overloading and explicit constructor invocation) which initializes the variables. {2 marks}

- **Main class**. Write a main class to create instances of **EmployeeTesla** with various types of **IDs - NewGuy** with no input values, **Alisa** with input values name="Alisa" only, **Adam** with input values name="Adam", taxNo=6541 only, **Ali** with input values name="Ali", taxNo=3941 and employee id = 12345. Execute the **introduce()** method for each instance. {2 marks}

Sample Output (10%):

```
run:
Constructor 1 running...
Employee Tesla starts working...
My name is John Doe, my tax no is 9999, and my employee id is 1111.
--- I am an Employee object ---

Constructor 2 running...
Employee Tesla starts working...
My name is Alisa, my tax no is 9999, and my employee id is 1111.
--- I am an Employee object ---

Constructor 3 running...
Employee Tesla starts working...
My name is Adam, my tax no is 6541, and my employee id is 1111.
--- I am an Employee object ---

Constructor 4 running...
Employee Tesla starts working...
My name is Ali, my tax no is 3971, and my employee id is 12345.
--- I am an Employee object ---

BUILD SUCCESSFUL (total time: 0 seconds)
```