

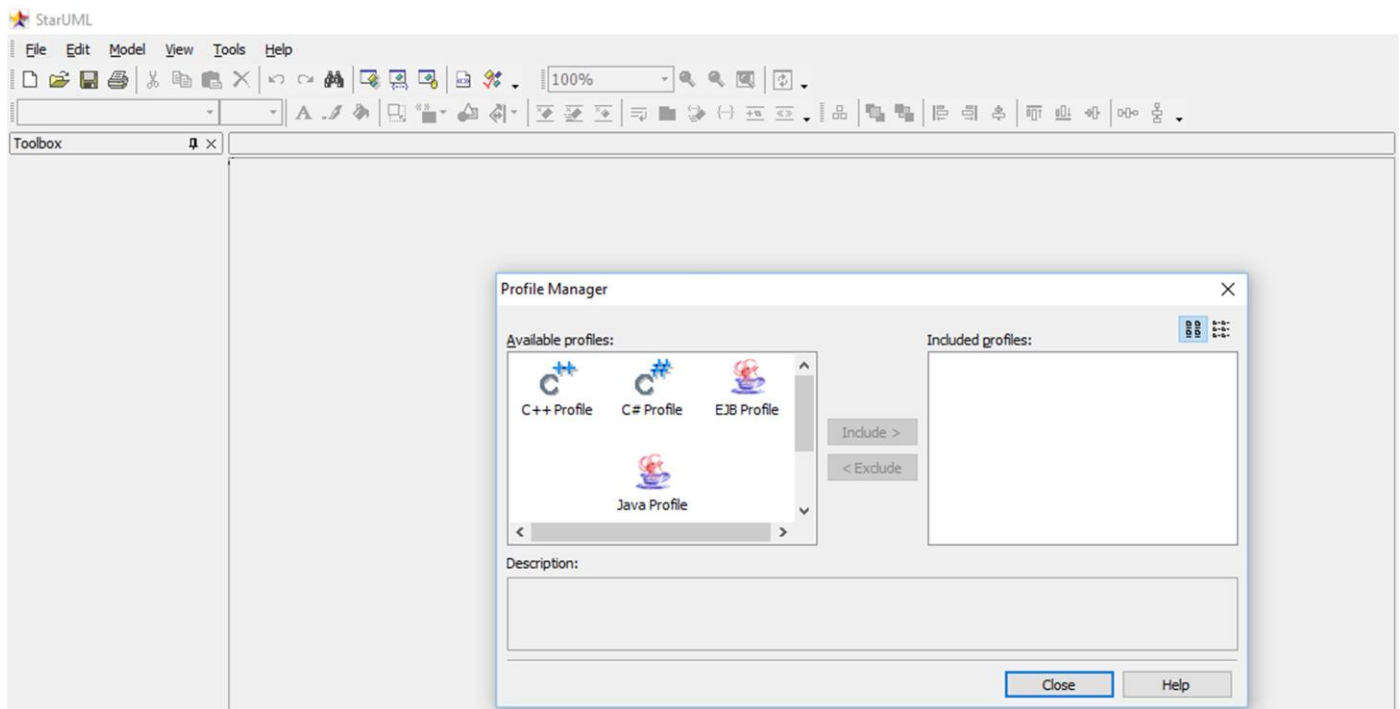
## Practical-7

### Aim: To Study about Forward and Reverse Engineering in UML using star UML

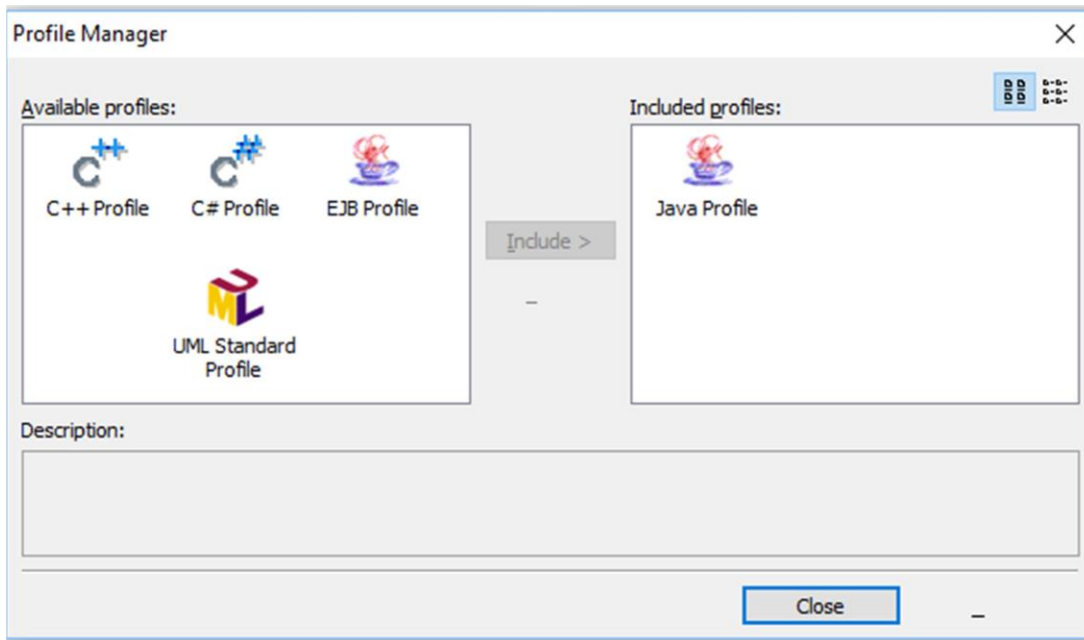
- Forward Engineering  
Model to Code (Programming Languages Like Java,C++,C#)
- Reverse Engineering  
Code (Programming Languages Like Java,C++,C#) to Model.

#### Step 1. Including Profile

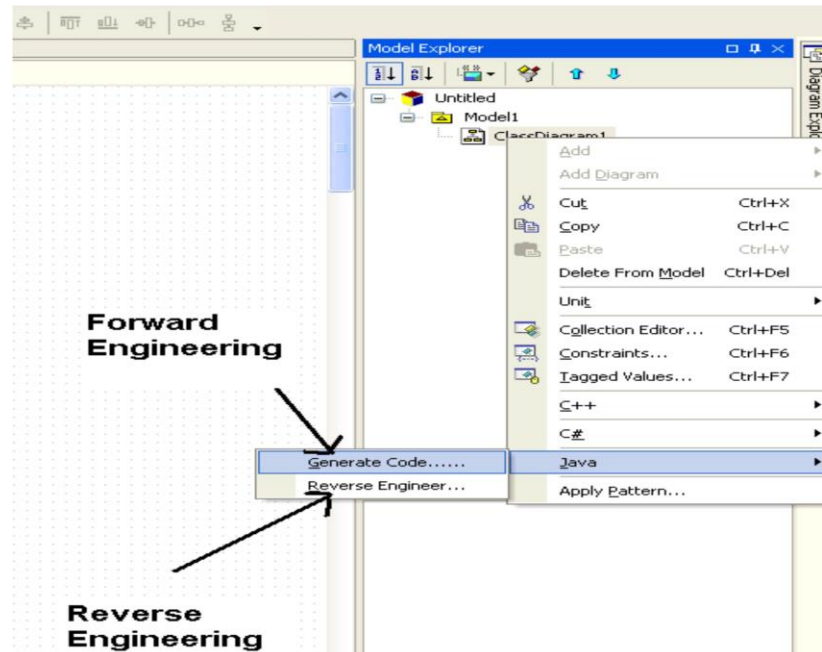
Select Model menu → click on profile (or directly press Control+F8)



Step 2. Add Java profile by clicking on Include> button. The java profile will be added to “Included profiles”.



Step 3. Now you can apply forward/reverse engineering by right clicking on your desired class diagram and then selecting java → generate code.

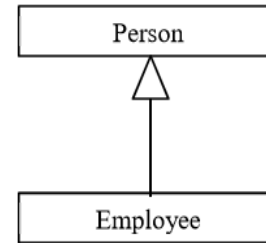


**Example:**

Account
- balance : Single = 0
- limit: Single
+ deposit (amount : single)
+ withdraw (amount : single)

**CLASS****This would generate the java code like this:**

```
class Account
{
    private float balance=0;
    private float limit;
    public void deposit(float amount)
    {
        balance = balance + amount;
    }
    public void withdraw(float amount)
    {
        balance = balance - amount;
    }
}
```

**If a Sample Class diagram is given like this****Then, its corresponding java code will be like this:**

```
class person
{
}
class employee extends person
{
}
```