

## WEEK-1

1. Familiarization with Rational Rose or Umbrello For each case study develops a problem statement.

### **Umbrello UML Modeler app and code generator**

Umbrello is a free and open source Unified Modeling Language modeler and code generator application for Linux, MacOS, and Windows. With UML you can create diagrams of software and other systems in a standard format to document or design the structure of your programs. It is released under the GNU General Public License v2.0 or later and a kde project. Supports XMI formats and use case, class, sequence, communication, state, activity, component, implementation, and entity relationship diagrams.

#### **Install Umbrella on Ubuntu Linux**

Umbrella is available as an out-of-the-box package for Ubuntu Linux. You can install it through the terminal app. Open the terminal app with ctrl+alt+t keys and run below umbrello instant install command.

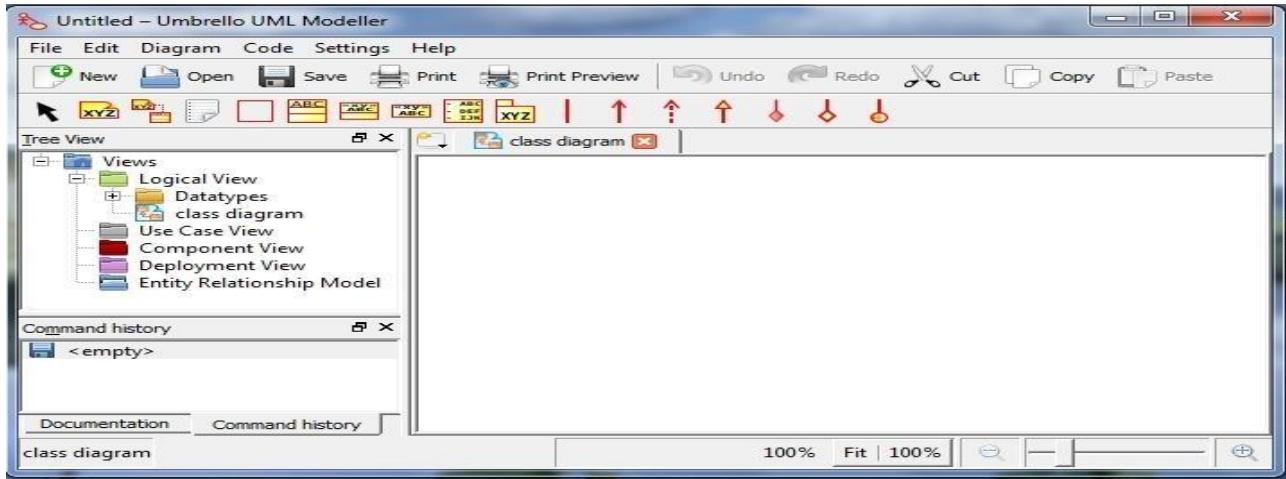
```
sudo snap install umbrello
```

After installation, you can open it through the application menu or by using the following command in terminal.

```
umbrello
```

If you don't need it, uninstall it using the following command.

```
sudo snap remove umbrello
```



## How to Install Umbrello (UML Modeler) On Windows 7

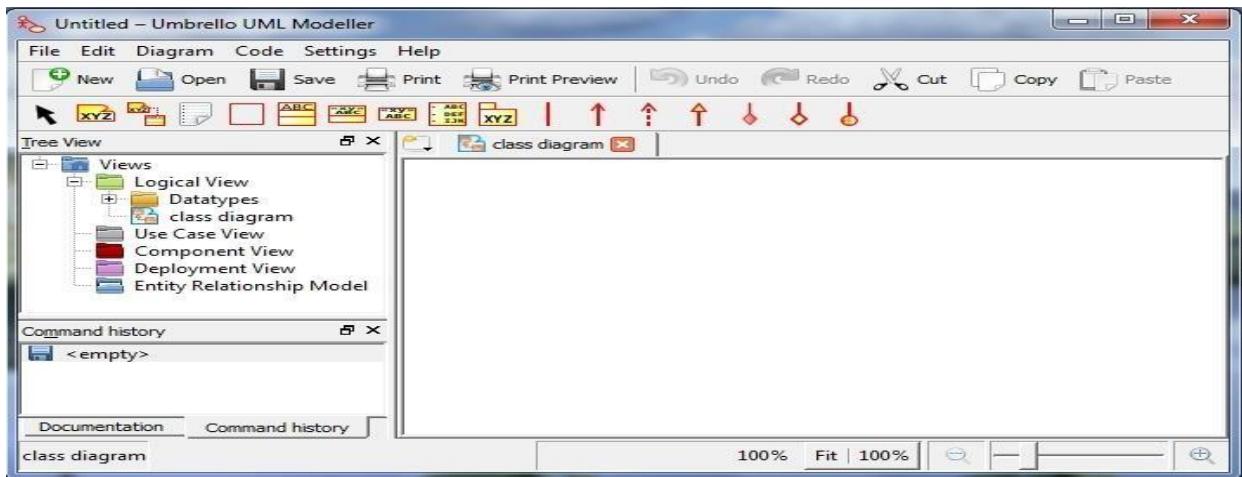
### Introduction

#### Umbrello (UML Modeler):

Umbrello UML Modeler is a free software UML diagram tool available natively for Unix-like platforms, as well as Microsoft Windows (as part of KDE-Windows). It is part of the KDE SC 4 but works well with other desktops and programming environments. Umbrello is a pretty simple UML editor though it does support a range of different views and diagrams. It makes it as easy as possible to draw a simple diagram, then lets you alter and add to it as your design is refined. Everything seems to work fine under Linux with the exception of exporting to an image.

#### KDE For Windows

KDE for Windows is an ongoing project to port the KDE applications to MS Windows. Currently supported versions of Windows are XP, Vista and 7

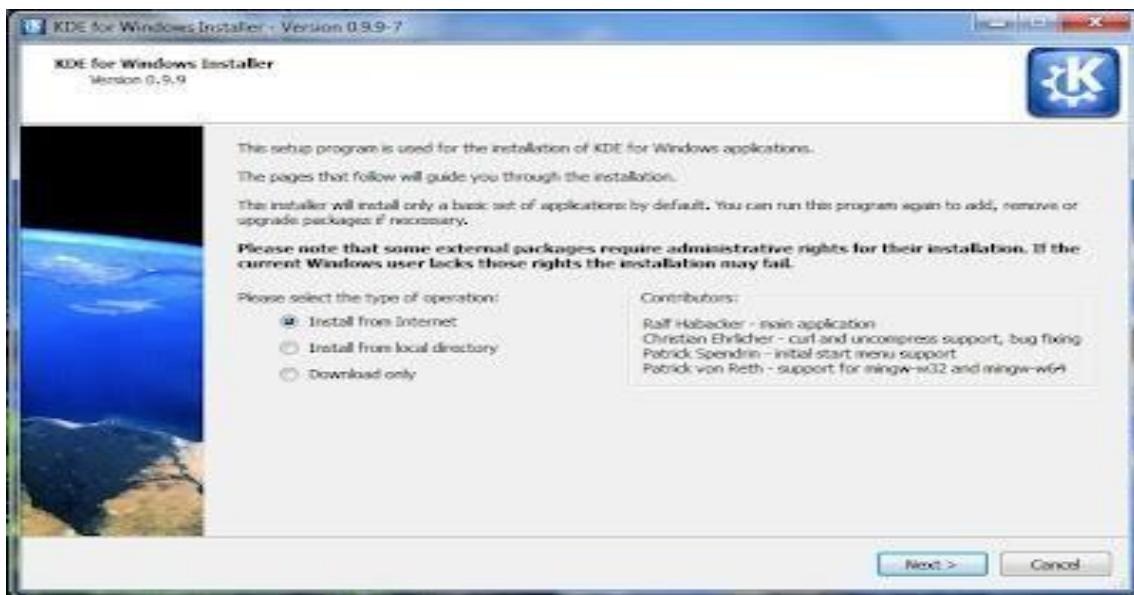


## 2 Requirement:

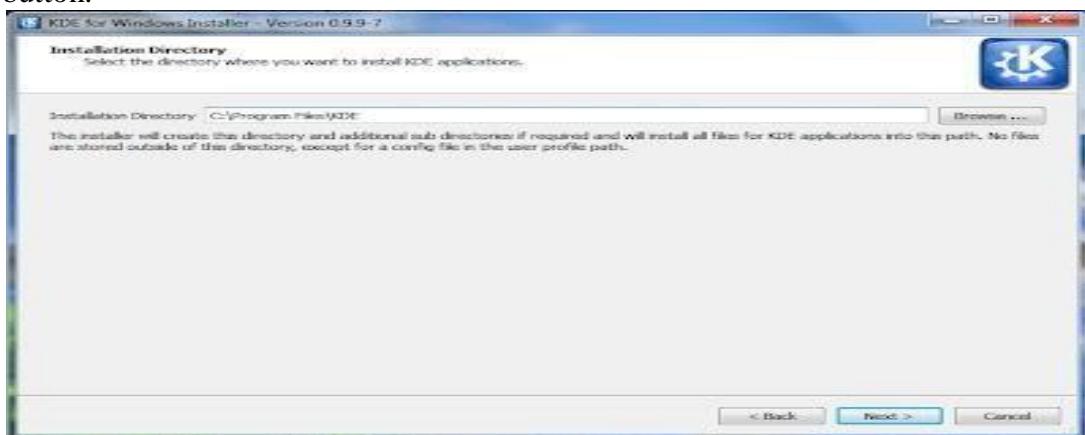
1. KDE For Windows
  - a. Download : <http://windows.kde.org/>
2. Umbrello
  - a. Download and installation with KDE For Windows

## 3 Installing KDE for Windows and Umbrello

1. Double click KDE installer (\*.exe file, example : kdewin-installer-gui-latest.exe), You will see a window that looks like this

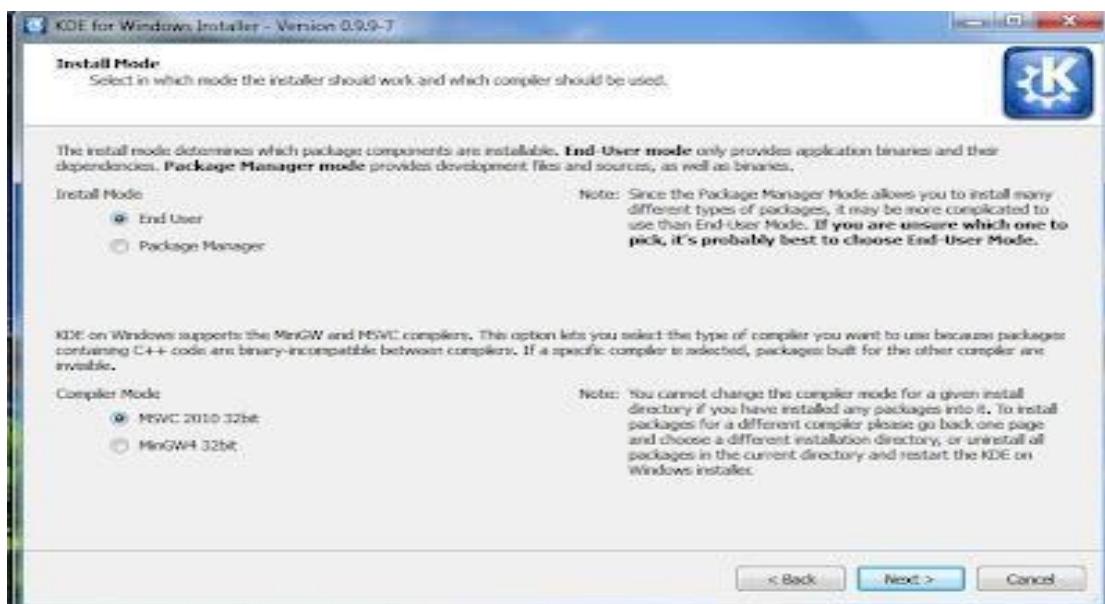


2. Choose “Install from Internet” for type operation, and then click the “Next >” button at the bottom of the screen.
3. On the window “Installation Directory”, click the “Browse ...” button to change default directory, and then click the “Next >” button.

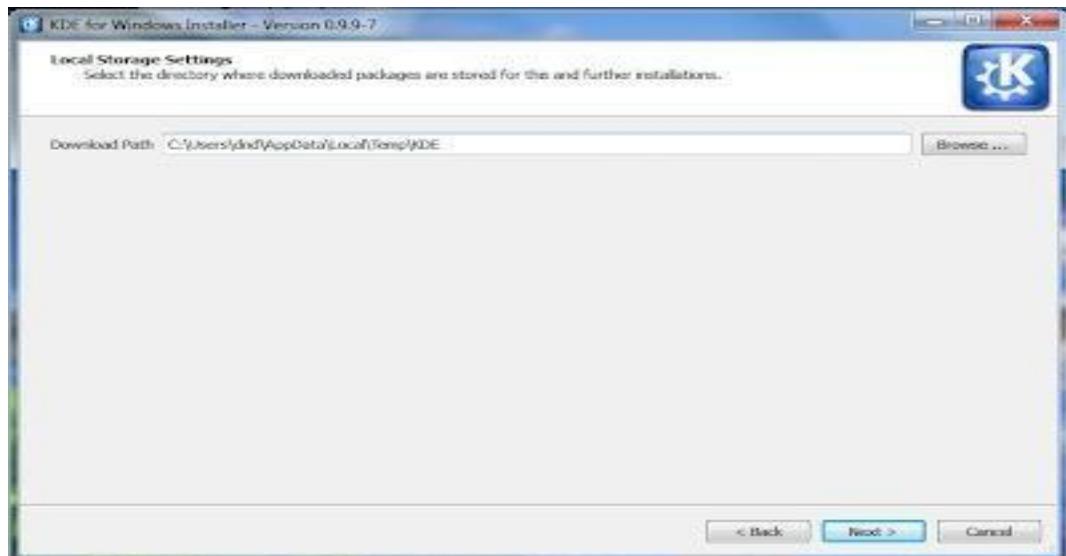


4. On the window “Install Mode” :
  1. Click the radio button “End User” on dialog Install Mode,
  2. Click the radio button “MSVC 2010 32bit” on dialog Compiler

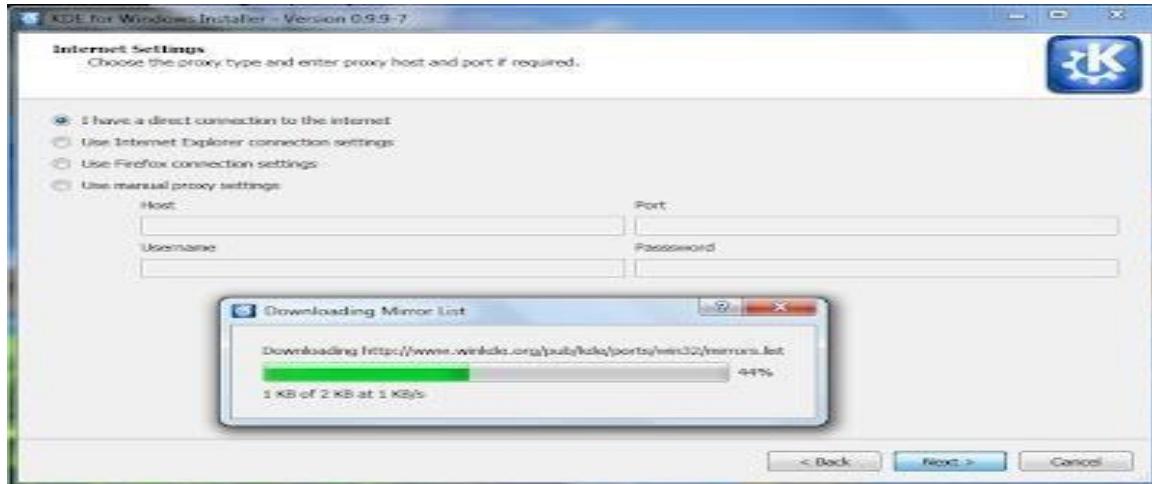
Mode, and then click the “Next >” button.



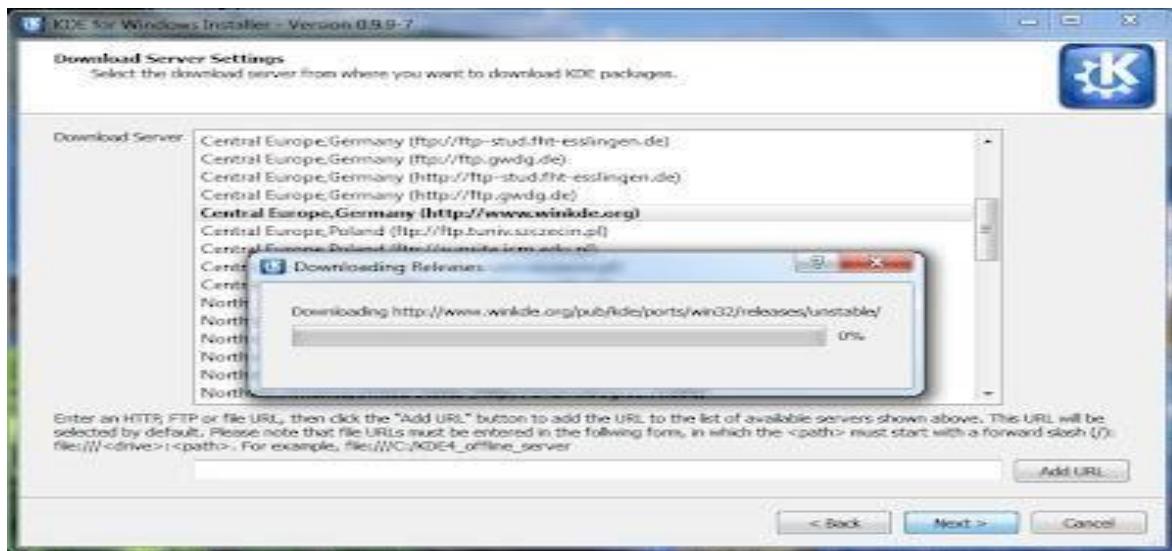
5. On the window “Local Storage Setting”, click the “Browse ...” button to change defaultdirectory, and then click the “Next >” button.



6. On the window “Internet Setting”, click the radio button “I have a direct connection to the internet”, and then click the “Next >” button.

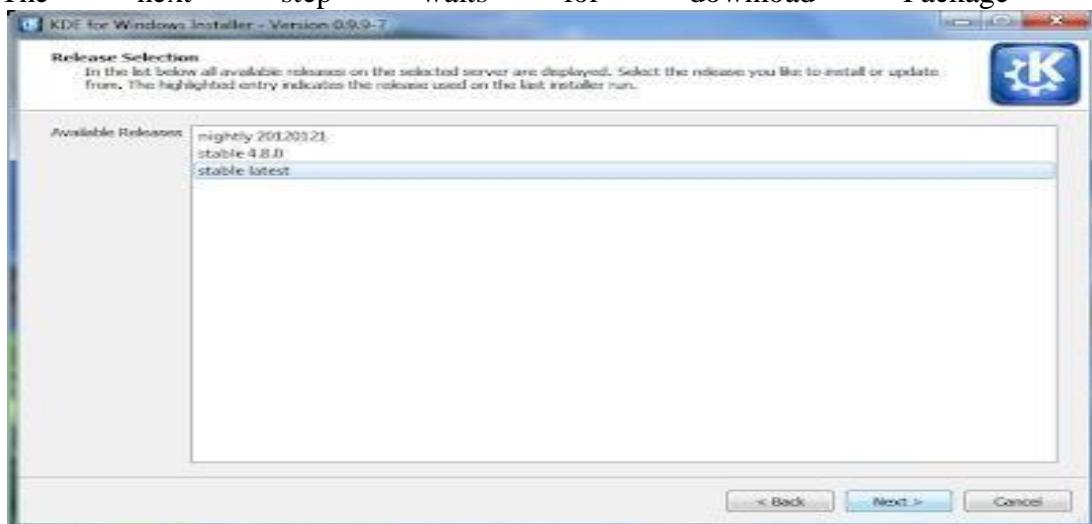


7. In the window “Download Server Setting”, Choose “Central Europe, Germany (<http://www.winkde.org>)” to install the application, and then click the “Next” button.
8. The next step wait for download Release.

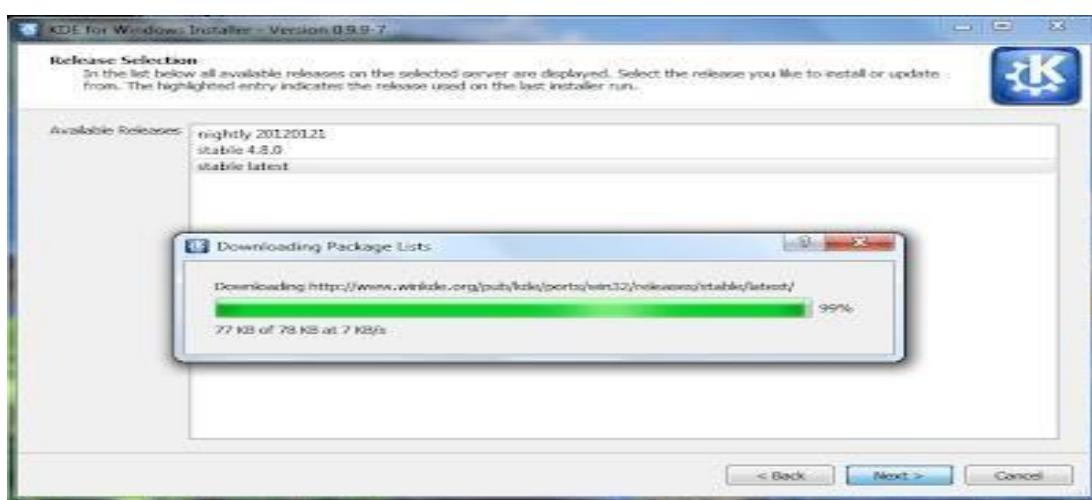


9. The next step, On the window “Release Selection”, choose Stable Release for AvailableRelease, and then click the “Next >” button.

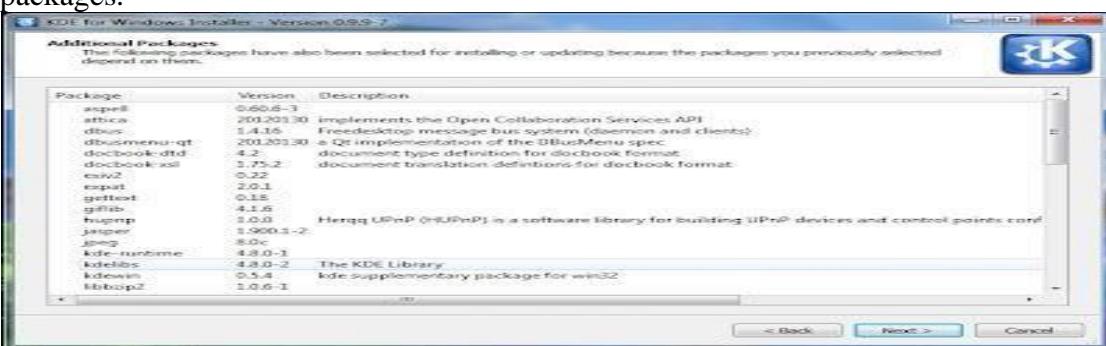
10. The next step waits for download Package List.



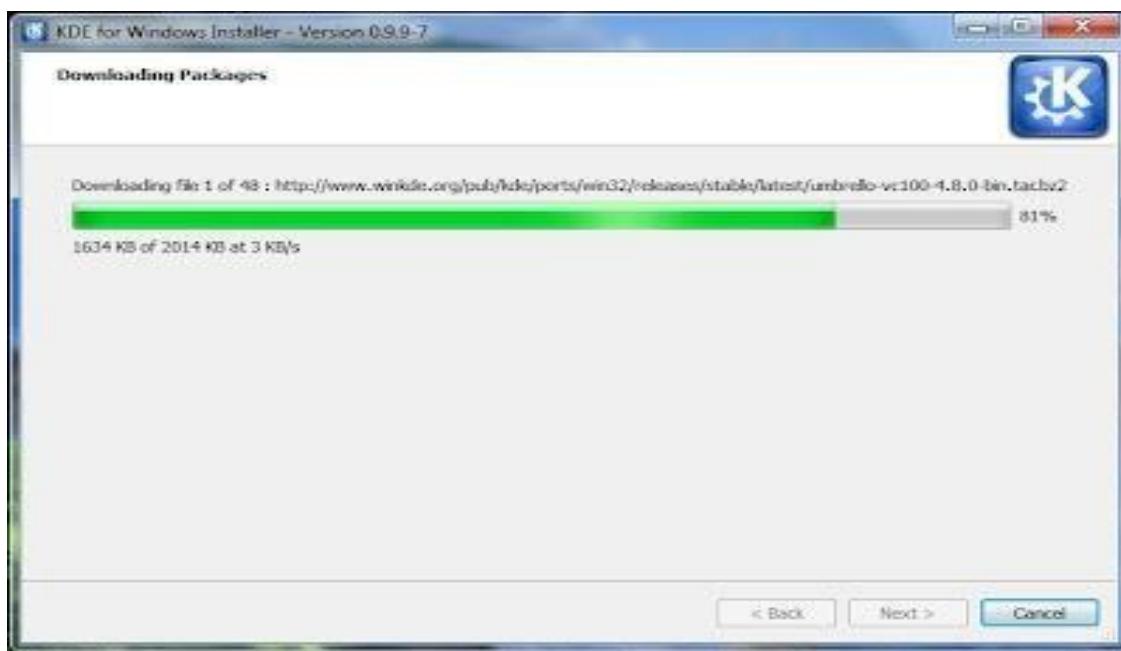
11. In the window “Package Selection”, choose “Umbrello” to install the application, and then click the “Next >” button.



12. The next step, you will get a confirmation on the package will be downloaded, click the“Next >” button to downloadand install packages.



13. The next step waits for download Packages and the finished installation.

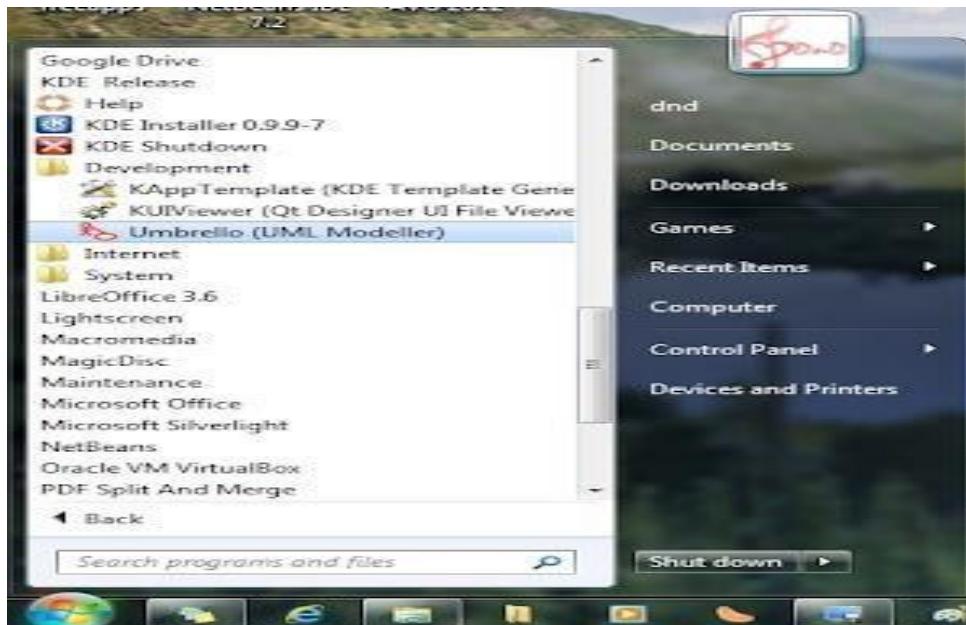


14. To complete the installation process clicks the “Finish” button. You should see a window that looks like this :



#### 4 Running Umbrello (UML Modeler)

1. To open Umbrello, Go to Start Menu à All Programs à KDE Release à Development à Umbrello (UML Modeler).



1. You will see a window that looks like this :

