Tex (LaTex)
Dr. Hanan A Batarfi
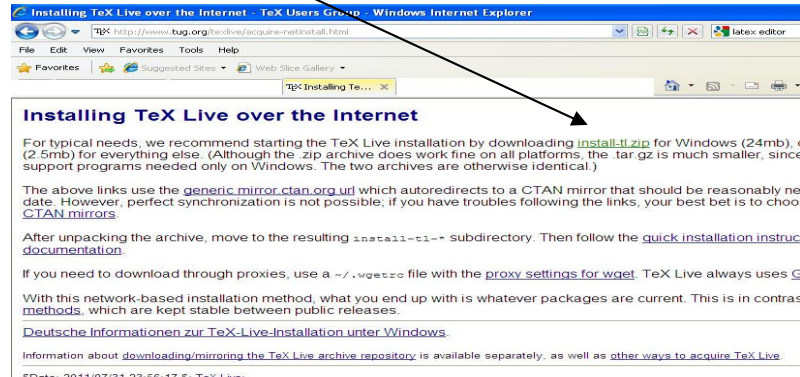
PN: Make sure that you clean-up any old version of Tex Live in your PC

لتحميل البرنامج، اذهبي للرابط

Install TexLive from http://www.tug.org/texlive/acquire-netinstall.html
By following the next steps: واتبعي الخطوات التالية
1)Download install-tl.zip for Windows (24mb) قومي بتحميل الملف الارشيفي الخاص بالويندوز

2)When the following screen appears عندما تظهر لك الشاشة التالية
then save the file in any desired folder, say on your Desktop
Note:don't change its name
قومي بتخزين الوثيقة المضغوطة (الارشيف) في ملف باختيارك
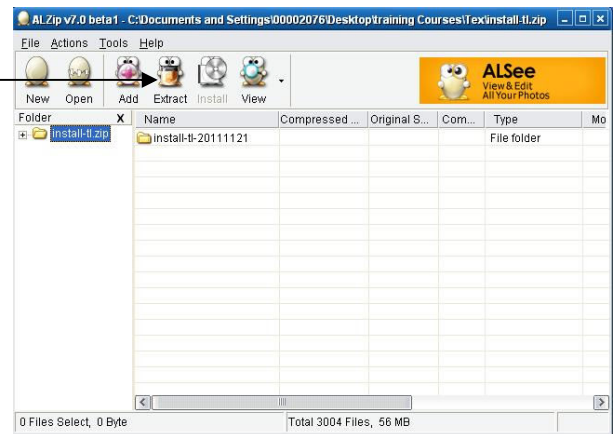ولنفرض على سطح المكتب مع ملاحظة عدم تغيير اسم الارشيف

3) unpack(extract) the archive (note that you
need an unzipping
 software to do so which can be found
 as a shareware in the Web)
افتحي الضغط عن الملف مع ملاحظة انك ستحتاجين الى برنامج
لفك الضغط وهو متوفر على الشبكة العنكبوتية بشكل مجاني
عندها سيظهر لك الملف التالي
A folder will appear

install-tl-20111121

To install a Tex software try MikTex by downloading it from
http://www.miktex.org/
and clicking MiKTex2.9

Scroll-down until you find the link to download "Basic MiKTex", press download
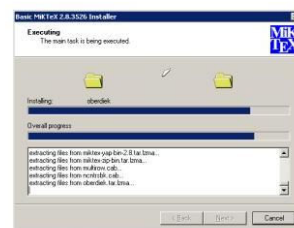
After the download completed,   Press Run, then   click on "I accept…" then Next
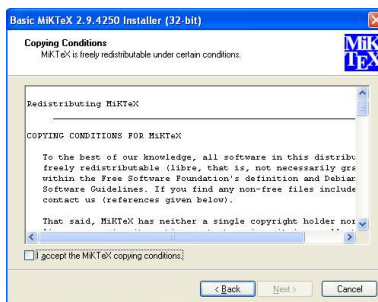
Click on "Anyone who uses this computer (all user)", then click Next
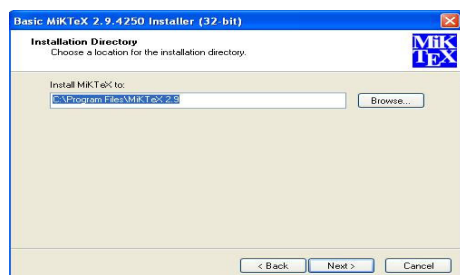
Type where do you want the program to be installed, then press Next   press Next
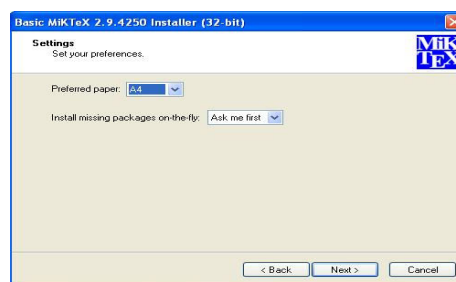
➔
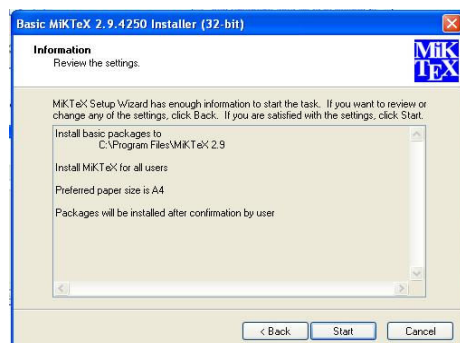
Press Start
You'll see the Screen
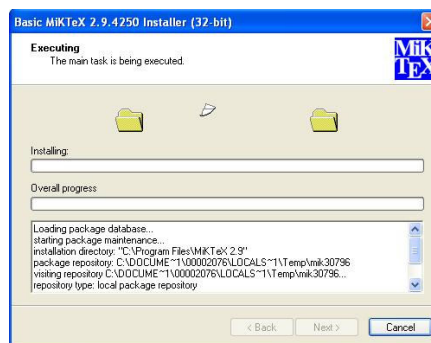
Press Next
when appeared

When installation finished then this screen will appear

Go to Start →All Programs → MikTex 2.9 → TeXworks

Start typing the following text then save your work.

```
\documentclass[12pt,oneside,a4paper]{article}
\usepackage{amsfonts}
\usepackage{amssymb}
\usepackage{amsmath}
\usepackage{amsbsy}
\usepackage{amscd}
\usepackage[pdflatex]{graphicx}
\setcounter{MaxMatrixCols}{10}
\renewcommand{\thesection}{\arabic{section}.}
\renewcommand{\thesubsection}{\thesection\arabic{subsection}.}
\renewcommand{\thesubsubsection}{\thesubsection\arabic{subsubsection}.}
\def\figurename{Fig.}
\makeatletter
\renewcommand{\fnum@figure}[1]{\figurename~\thefigure.}
\setlength{\abovecaptionskip}{0pt}
\setlength{\belowcaptionskip}{0pt}
\newtheorem{theorem}{Theorem}
\newtheorem{acknowledgement}{Acknowledgement}
\newtheorem{algorithm}{Algorithm}
\newtheorem{axiom}{Axiom}
\newtheorem{case}{Case}
\newtheorem{claim}{Claim}
```

\newtheorem{conclusion}{Conclusion}
\newtheorem{condition}{Condition}
\newtheorem{conjecture}{Conjecture}
\newtheorem{corollary}{Corollary}
\newtheorem{criterion}{Criterion}
\newtheorem{definition}{Definition}
\newtheorem{example}{Example}
\newtheorem{exercise}{Exercise}
\newtheorem{lemma}{Lemma}
\newtheorem{notation}{Notation}
\newtheorem{problem}{Problem}
\newtheorem{proposition}{Proposition}
\newtheorem{remark}{Remark}
\newtheorem{solution}{Solution}
\newtheorem{summary}{Summary}
\renewcommand{\theequation}{\arabic{equation}}
\begin{document}
\title{My First Tex document}
\author{My name}
\date{Dec 2012}
\maketitle ← so that,what's in {} of \title will appear as a title
\thispagestyle{empty} \setcounter{page}{1} ← not to print page's number in the first page
\begin{abstract}
My abstract is here
\end{abstract}
{\small\bf{Keywords:}} Wavelet spectra, pulsed-driven system.
\section{Introduction}
\end{document}
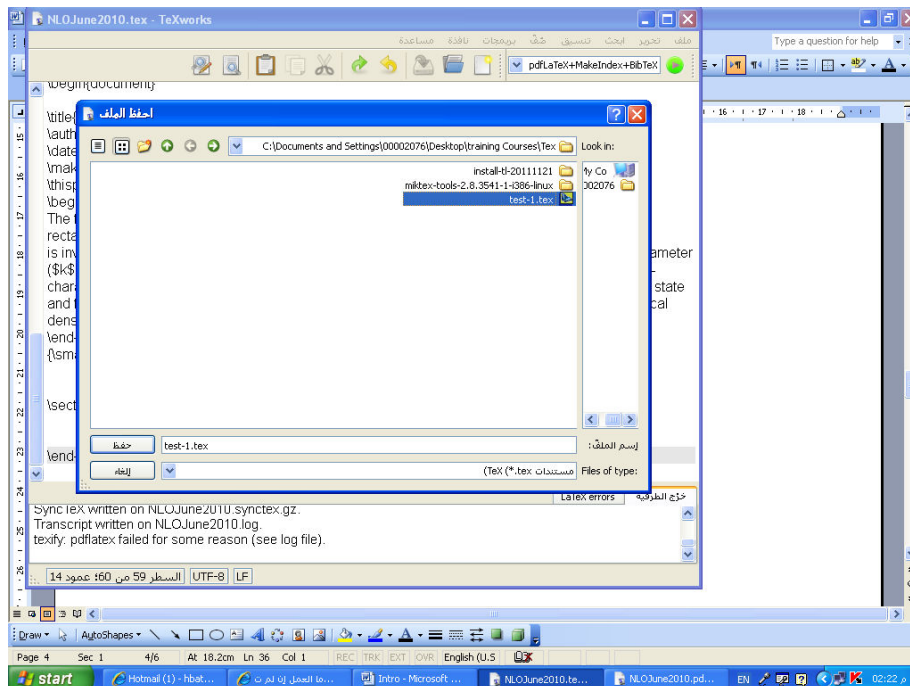
Then press the green arrow, appears at the top-right of the file's screen, in order to run the compilier.
Another screen may appears asking for the package storage place.. just press Install

Screenshot 1 — test-1.tex - TeXworks

```
\newtheorem{solution}{Solution}
\newtheorem{summary}{Summary}
\renewcommand{\theequation}{\arabic{equation}}

\begin{document}

\title{My First Tex}
\author{My name}
\date{Dec 2012}
\maketitle
\thispagestyle{empty} \setcounter{p
\begin{abstract}
The transient fluorescent spectrum
rectangular pulse
is investigated analytically and com
($k$) of the mother wavelet functio
characteristic of the window transm
and for strong pulse and large ($k$
dense 'ringing' around the two Rab
\end{abstract}
{\small\bf{Keywords:}} Wavelet spe
```

Package Installation

The required file

   tex\context\base\supp-pdf.mkii

is missing. It is a part of the following package:

   mptopdf

The package will be installed from:

   <Random package repository> [Change...]

The package will be installed for:

   Anyone who uses this computer (all users)

☑ Always show this dialog before installing packages [Install] [Cancel]

```
("C:\Program Files\MiKTeX 2.9\tex\generic\oberdiek\ltxcmds.sty")))))
("C:\Documents and Settings\00002078\Desktop\training Courses\Tex\test-1.aux")
```

Screenshot 2 — test-1.pdf - TeXworks

My First Tex

My name

Dec 2012

Abstract

The transient fluorescent spectrum of a non-dissipative single 2-level atom driven by a resonant rectangular pulse is investigated analytically and computationally with the Haar wavelet window function. The shift parameter (k) of the mother wavelet function induces periodic effect. For weak pulse, a central dip structure -characteristic of the window transmission lines- occurs in the spectrum. With initial atomic coherent state and for strong pulse and large (k), interference of the strong Rabi oscillations induces asymmetrical dense 'ringing' around the two Rabi side bands of the spectrum.

Keywords: Wavelet spectra, pulsed-driven system.

1. Introduction