



- ✓ *Introduction to AutoCAD*
- ✓ *AutoCAD Basics.*
- ✓ *How to install AutoCAD*
- ✓ *Run AutoCAD for the first time*
- ✓ *Using the mouse and keyboard*
- ✓ *The bars in AutoCAD*
- ✓ *Units and scale*





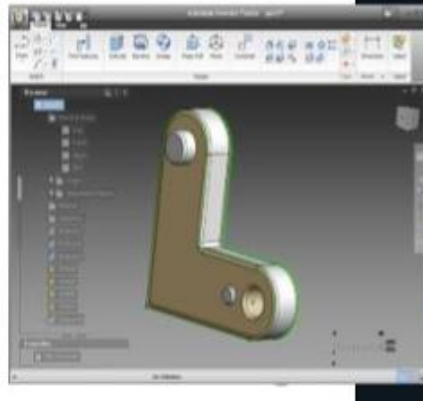
What is CAD?

- Computer Aided Drafting
- Autodesk is the most popular drawing program
- Many student versions available for free online at students.autodesk.com
 - AutoCAD
 - Architecture
 - Mechanical
 - Revit
 - Inventor
 - Civil
 - MEP
 - etc.



Autodesk

- Capabilities:
 - 2D line drawings
 - 3D constructions
 - Rendering
 - Part Assemblies



What is AutoCAD?

Computerized program
Most common in the field of
drawing
Engineering

Free copies are available for
students at the link.

<https://www.autodesk.com/education/home>

AutoCAD capabilities

2D drawing

3D drawing

Connecting parts together
(assembly)



It is a computer-aided design and drafting program that supports the creation of two- and three-dimensional drawings. This program was developed since ١٩٨٢ as an application for personal computers, and since ٢٠١٠ it has become available as a web application that works through browsers and smartphones based on the principle of cloud storage under the current trade name AutoCAD ٣٦٠.

AutoCAD is developed and marketed by Autodesk, which released the first version of AutoCAD in December ١٩٨٢. Since March ١٩٨٦, it has become the most widely used design program in the world for personal computers, while most computer-aided design programs at that time worked on mainframes.

AutoCAD is a general-purpose design program used in many fields (civil, architectural, electrical, mechanical, interior design, and drawing). It is used by engineers of various specialties for construction drawings and engineering designs, in addition to many professions and industries.



Install Step 1:

Open the link or the CD

التنصيب: الخطوة 1:

افتح الرابط او القرص

AutoCAD Free Download

www.autodesk.com/education/free-software/autocad#

AUTODESK

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AUTOCAD

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About Autodesk Educ

AutoCAD

Design and shape the world around you with the powerful, connected design tools in AutoCAD software. Create stunning 3D designs, speed documentation, and connect with the cloud to collaborate on designs and access them from your mobile device.

Learn more Get the full suite

<http://www.autodesk.com/education/free-software/autocad>

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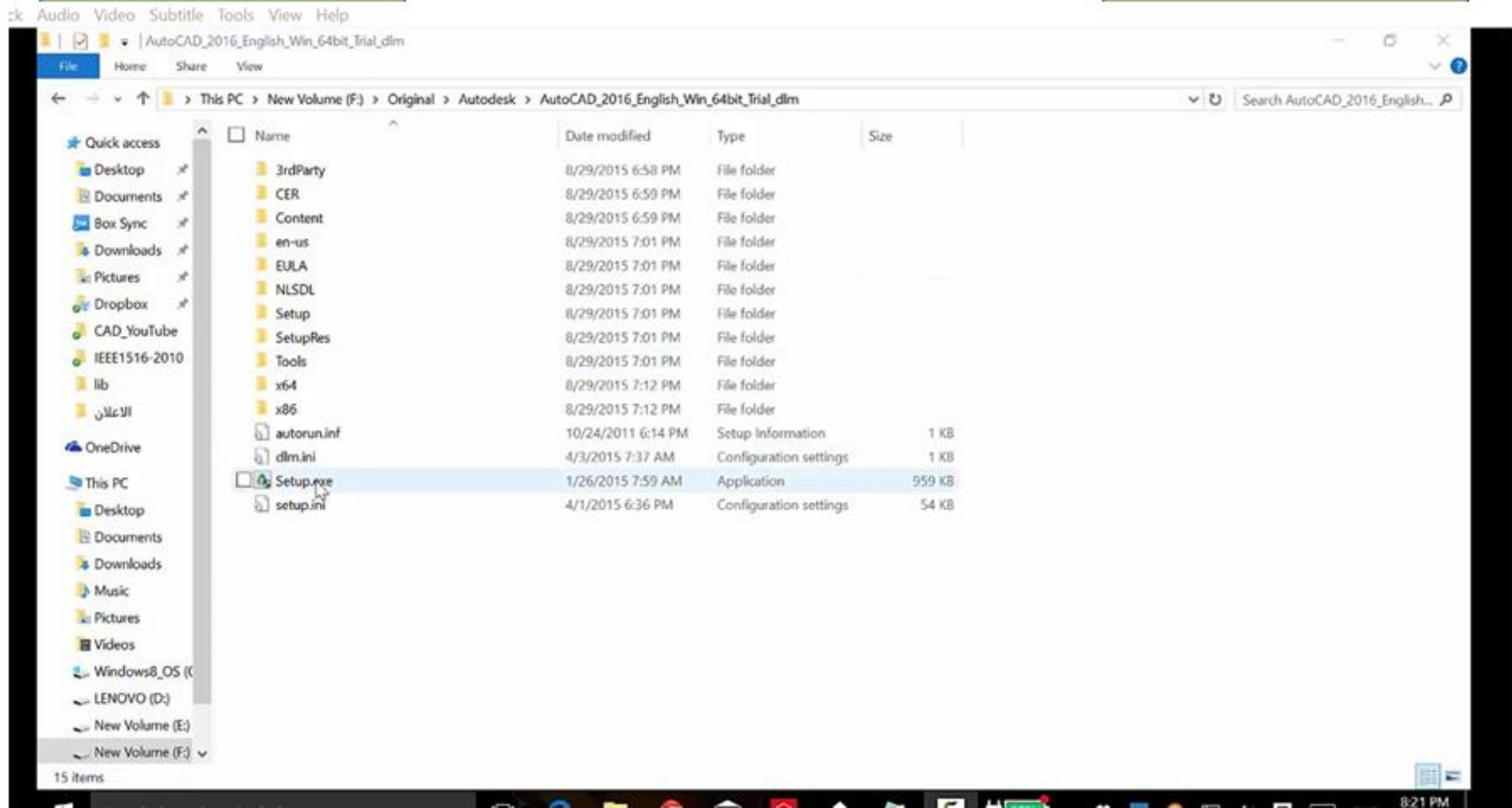


Install Step 2:

Press Setup.exe

التنصيب: الخطوة 2:

اضغط على ايقونة تنصيب





Install Step 3:
Press Install

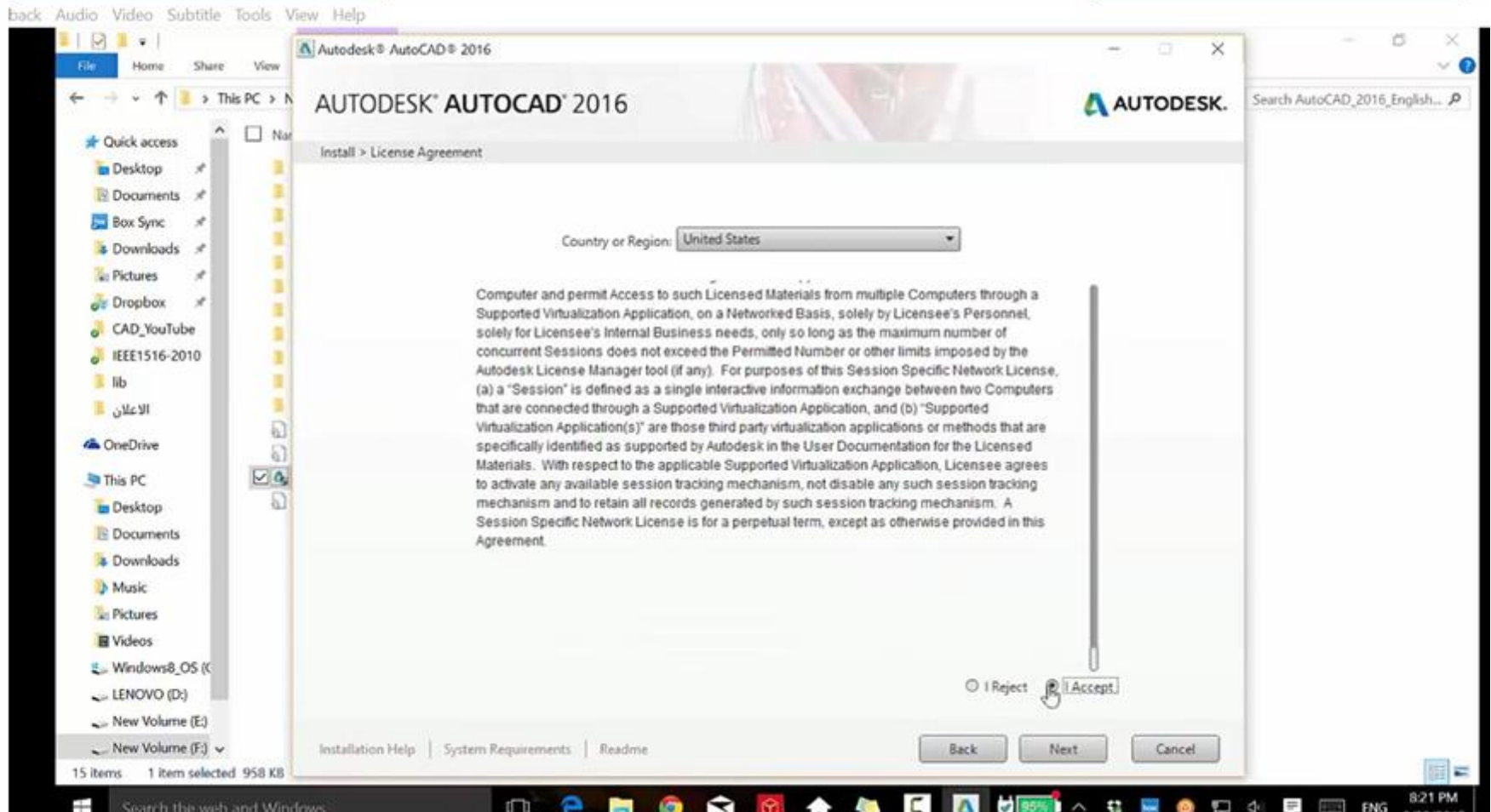
التنصيب: الخطوة 3:
اضغط نصب





Install Step 4:
Select Accept

التنصيب: الخطوة 4:
اختر موافق



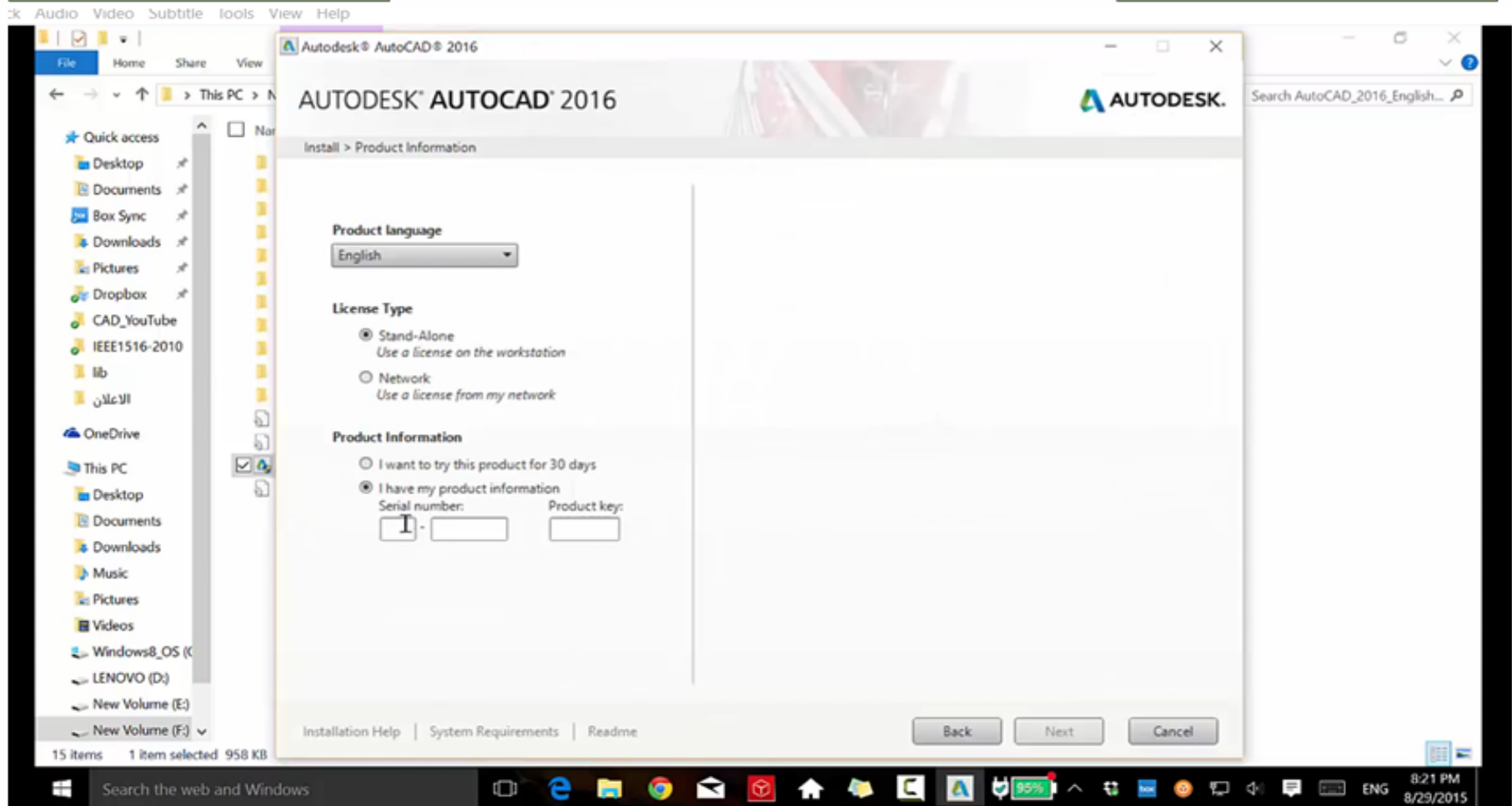


Install Step 5:

Input Serial Number

التثبيت: الخطوة 5:

ادخل الرقم التسلسلي





Install Step 6:
Select Autodesk

التنصيب: الخطوة 6:
اختر اوتوديسك





Install Step 7:

Wait until Completion of installation

التنصيب: الخطوة 7:

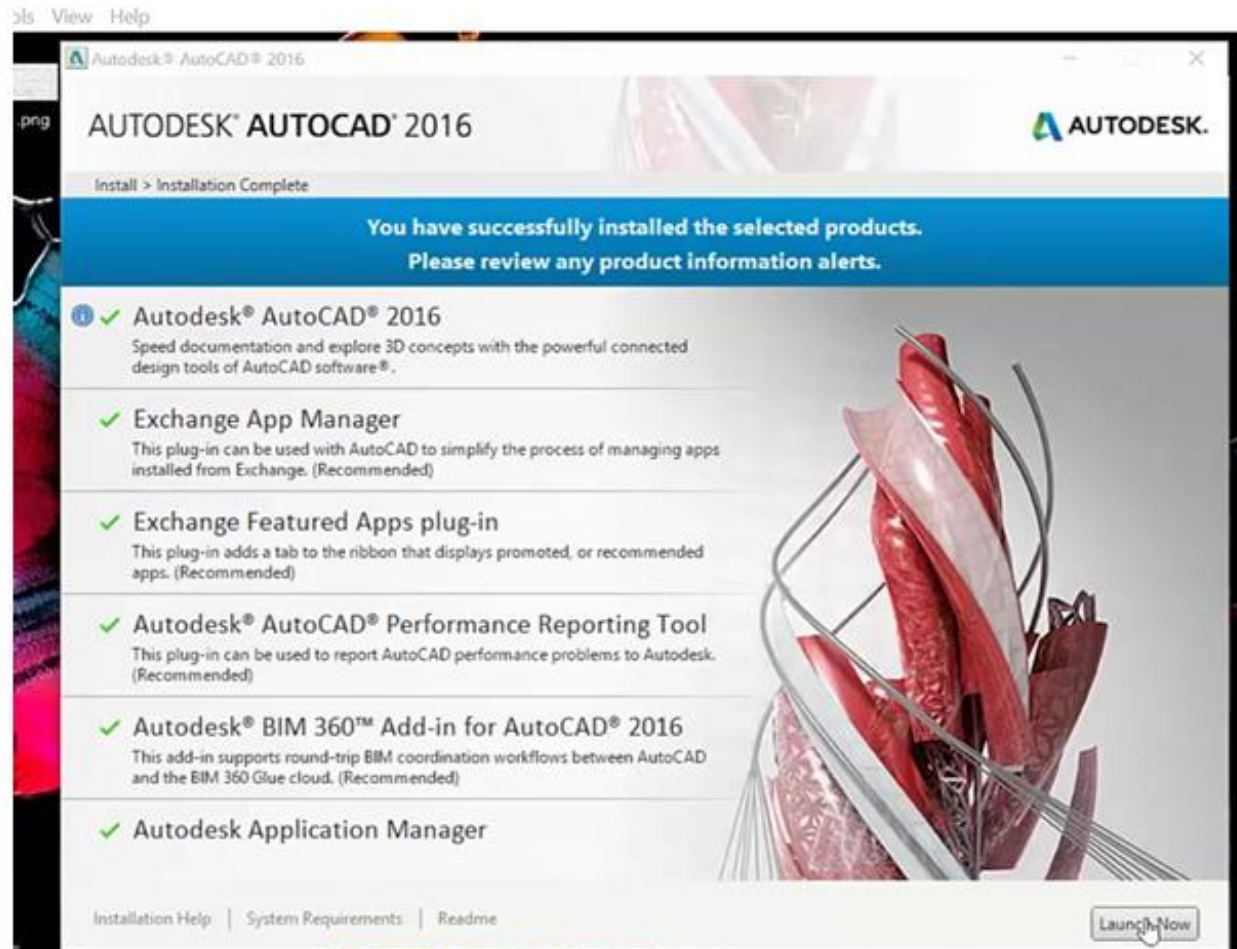
انتظر اكتمال التنصيب





Install Step 8:
Press Launch Now

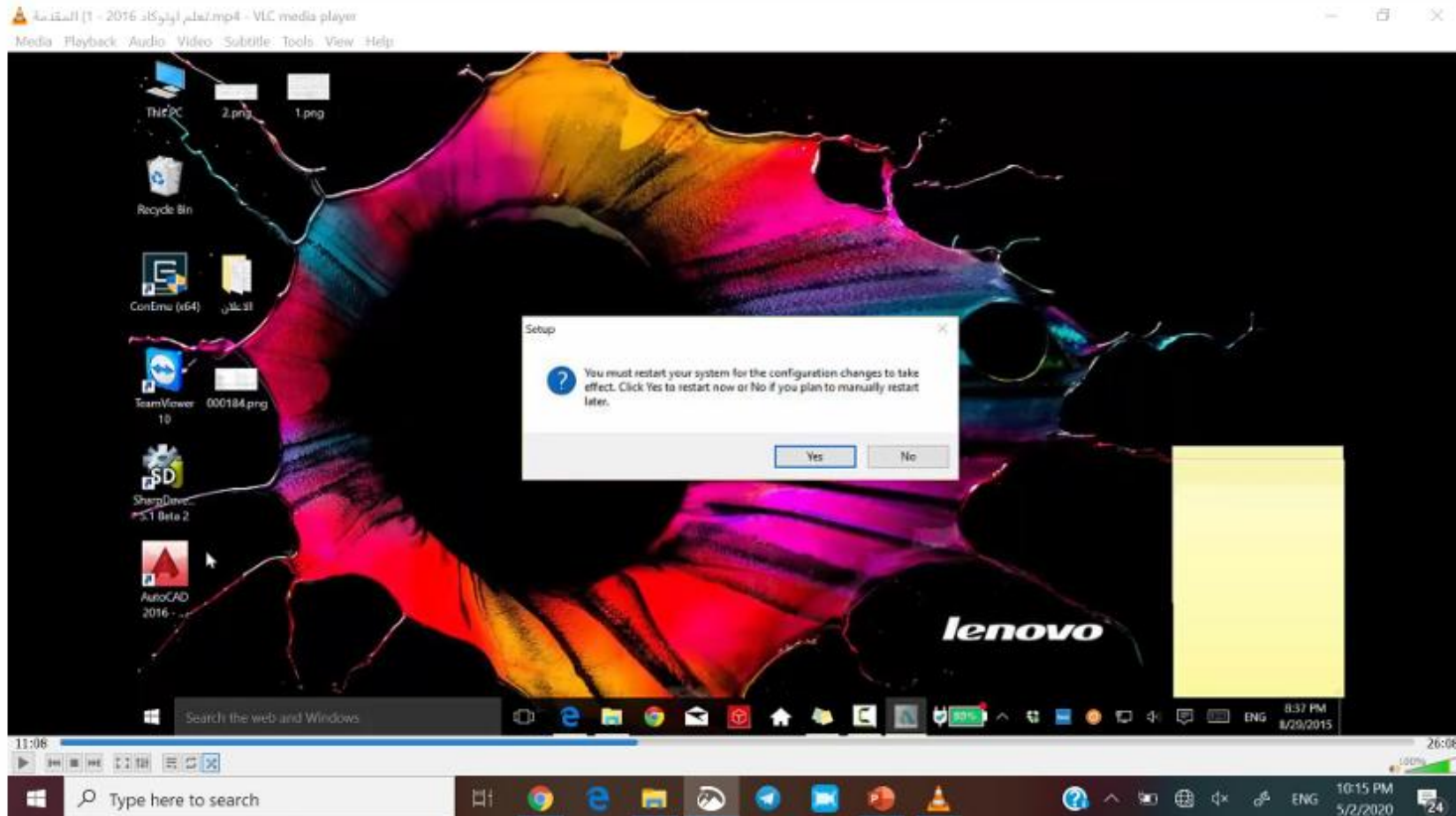
التنصيب: الخطوة 8:
اضغط اطلق الان





**Install Step 9:
Restart you computer**

**التنصيب: الخطوة 9:
اعد تشغيل الحاسوب**



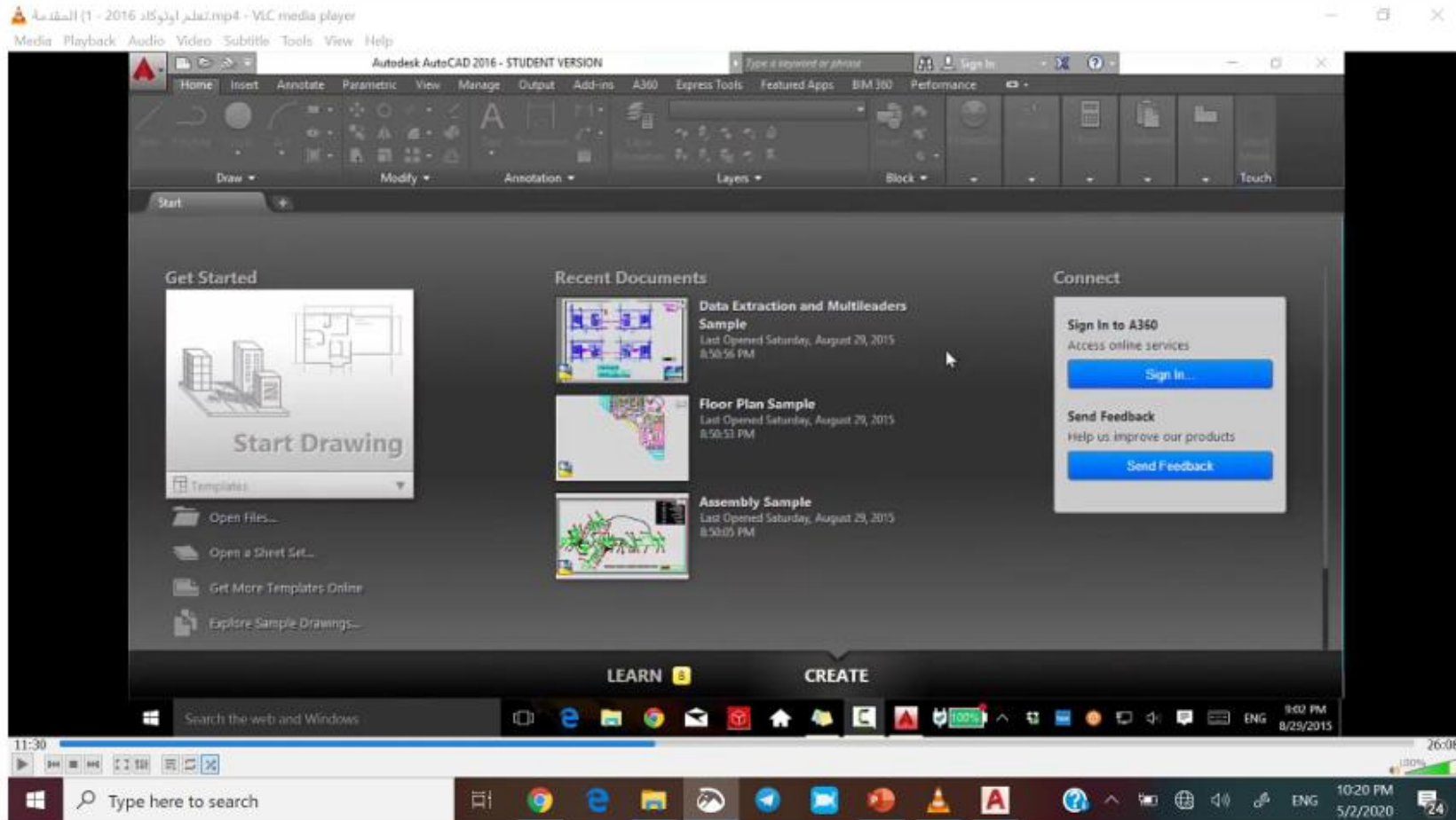


Install Step 10:

If you press on the icon of run you will get this interface

التنصيب: الخطوة 10:

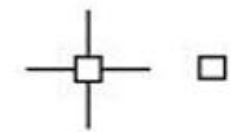
عند الضغط على ايقونة التشغيل ستظهر لك هذه الواجهة



الفأرة (الماوس)

The Mouse

Most people use a mouse as their pointing device, but other devices have equivalent controls.



select objects
اختر احد الموجودات



specify locations
حدد الموقع



pan and zoom
امسك او قرب او ابعد

قوائم مختصرة
shortcut menus



Scroll

Very Important

Scroll Forward → Zoom in

Scroll Backward → Zoom out

Hold Scroll → Hold

لبكرة: مهمة جدا

ور البكرة باتجاه الامام --> تقريب
لصورة

ور البكرة باتجاه الخلف --> ابعاد
لصورة

ضغط على البكرة - امسك الرسم و
حركه أينما تريد



Keyboard

Escape

Stop Command اوقف الامر

Back Space

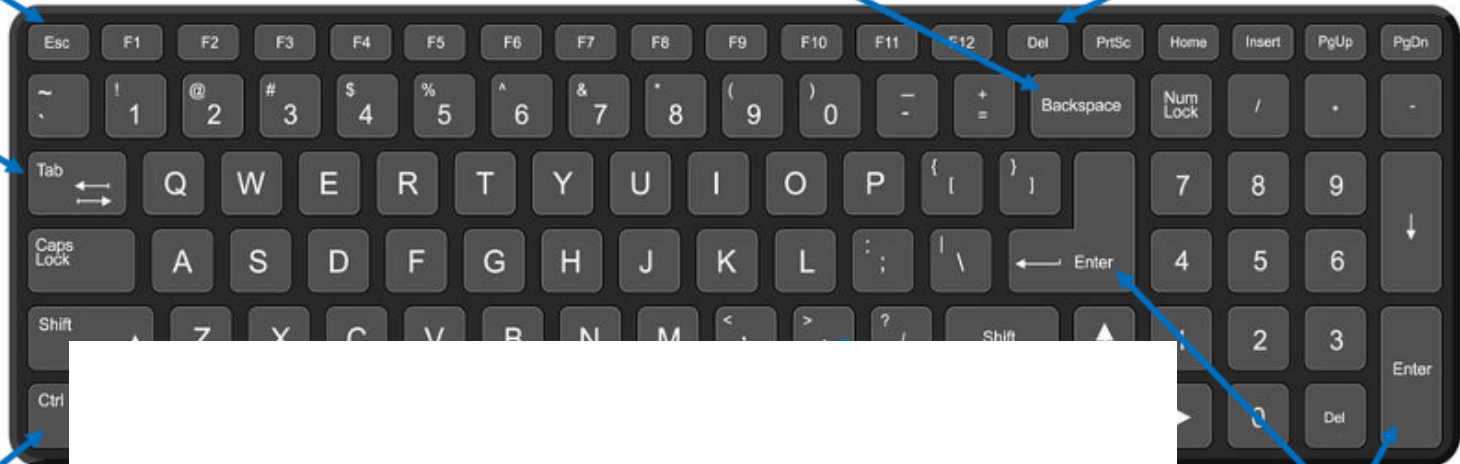
Delete input

احذف

Delete امسح

Delete Element or more امسح العنصر

Delete Line, Circle, امسح الخط او الدائرة



Control Important;
many tasks

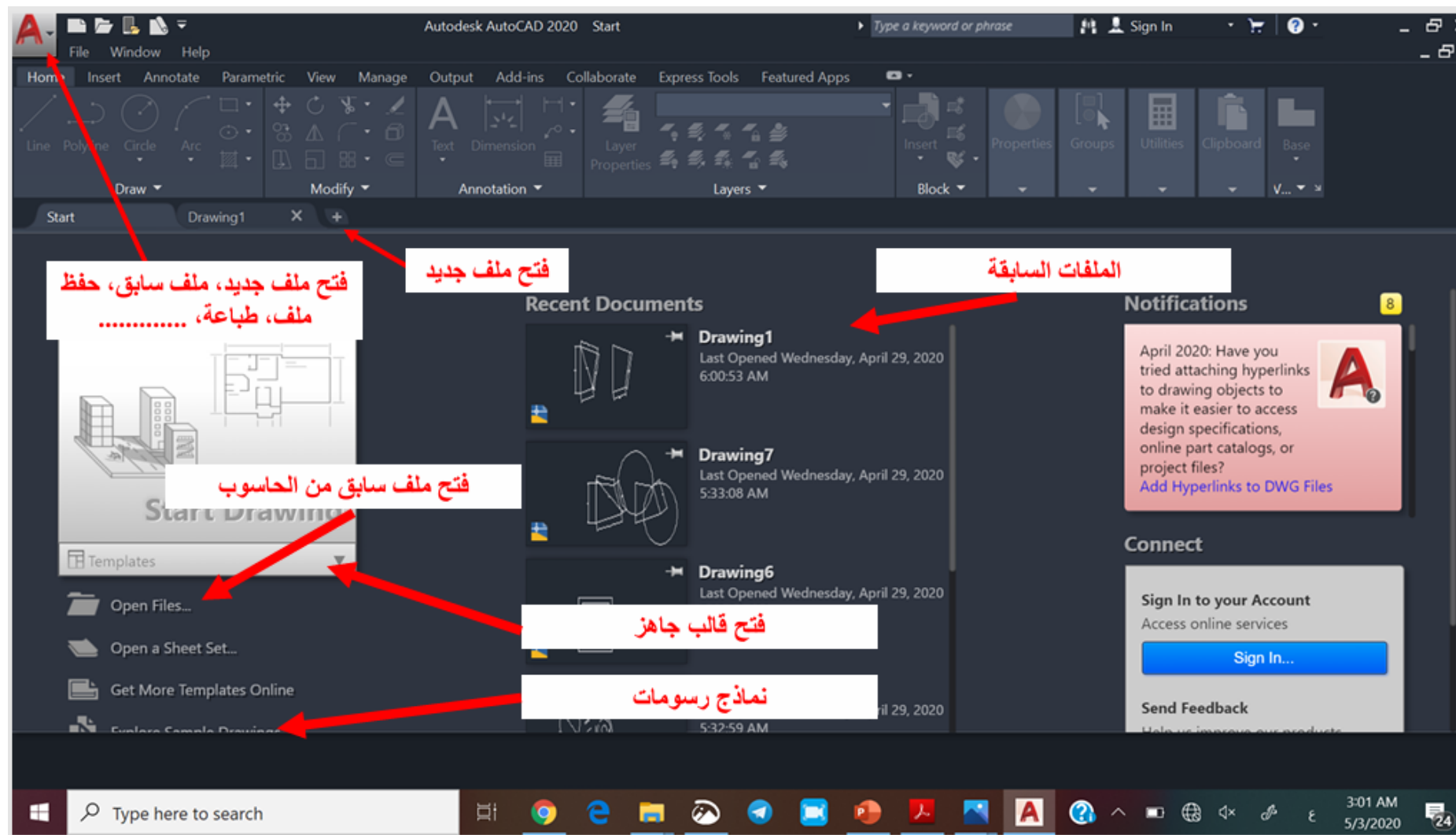
Ctrl+A : Select All اختر
الجميع

Enter ادخل

Very Important

**To Execute any
command**

لتنفيذ اي امر اضغط ادخل



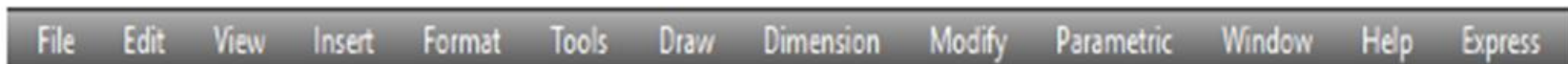


The AutoCAD screen consists from top to bottom of the following elements:

١- Title bar: It contains from right to left the name of the program, the name of the open file, the print option, the save option, the open file option, and the open new file option.



٢- Drop-down menu bar: It is located below the title bar and contains the following menus: view - file

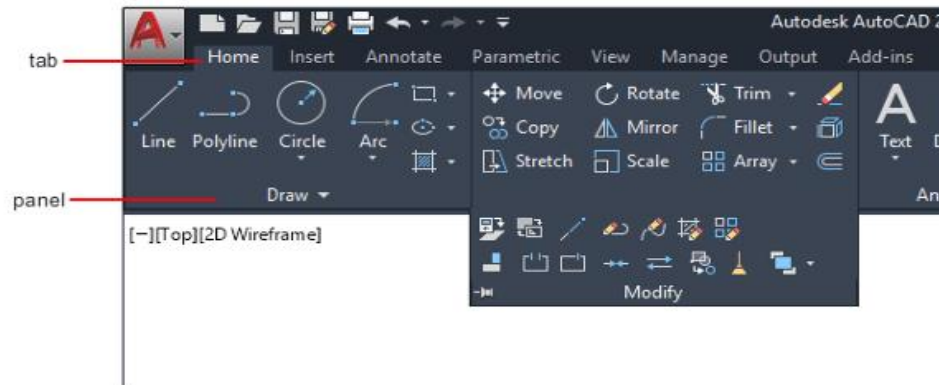




٣- Ribbon bar: Located below the drop-down menu bar.



The ribbon consists of a series of tabs organized into panels that contain many of the tools and controls available in the toolbars.



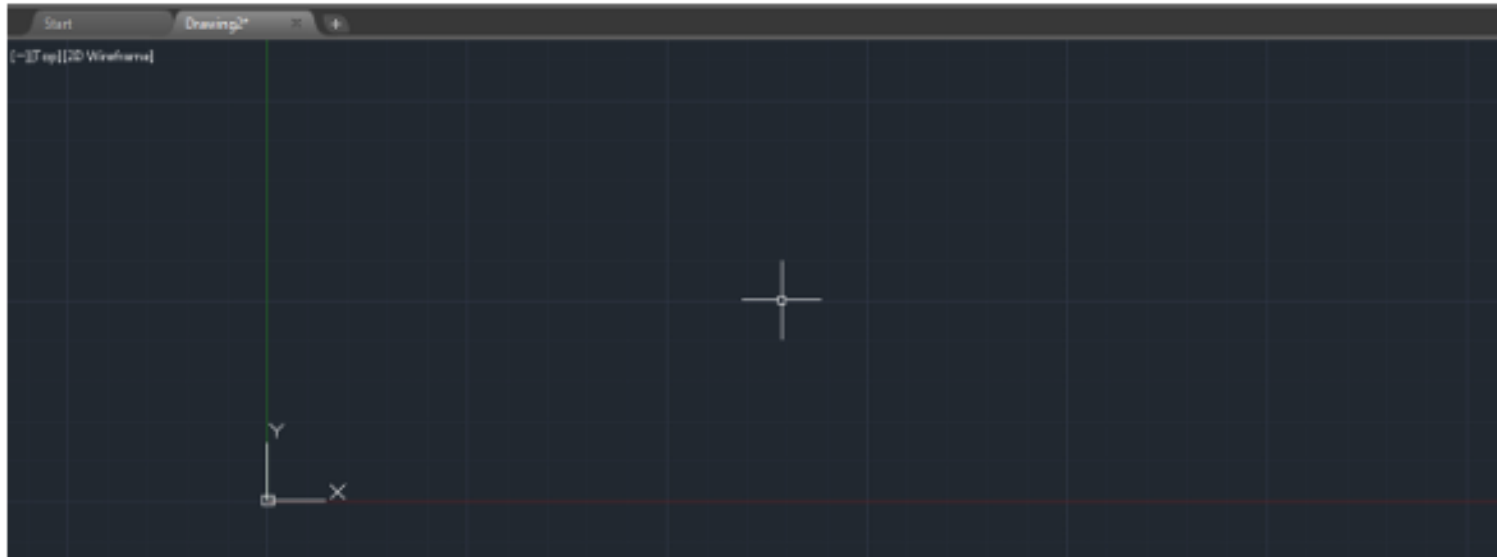
The Ribbon bar provides access to a dialog box related to that panel. The dialog box in question is displayed in the relevant dialog box. Clicking the dialog box launcher, indicated by the arrow icon, in the lower right corner of the panel.



dialog box launcher



4- The black screen: It is the drawing screen through which graphic charts can be inserted.



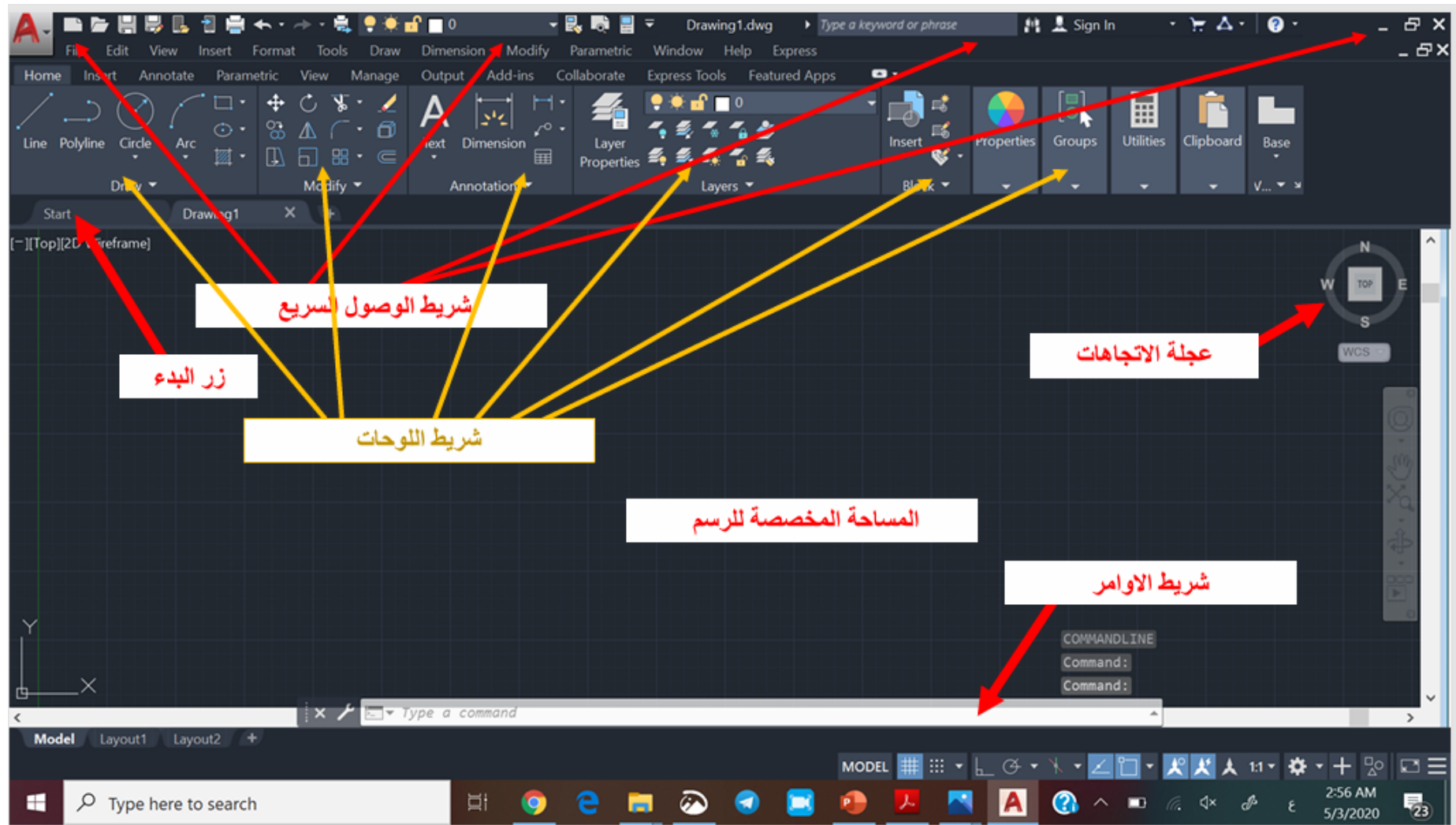
5- Command bar: which is used to deal with the commands entered into the program.

If you press the (F2) button, the command bar will appear on the entire screen, and when you press it again, the command bar will return to its normal size at the bottom of the screen.



6- Status bar: Located below the command bar, it contains a set of special commands

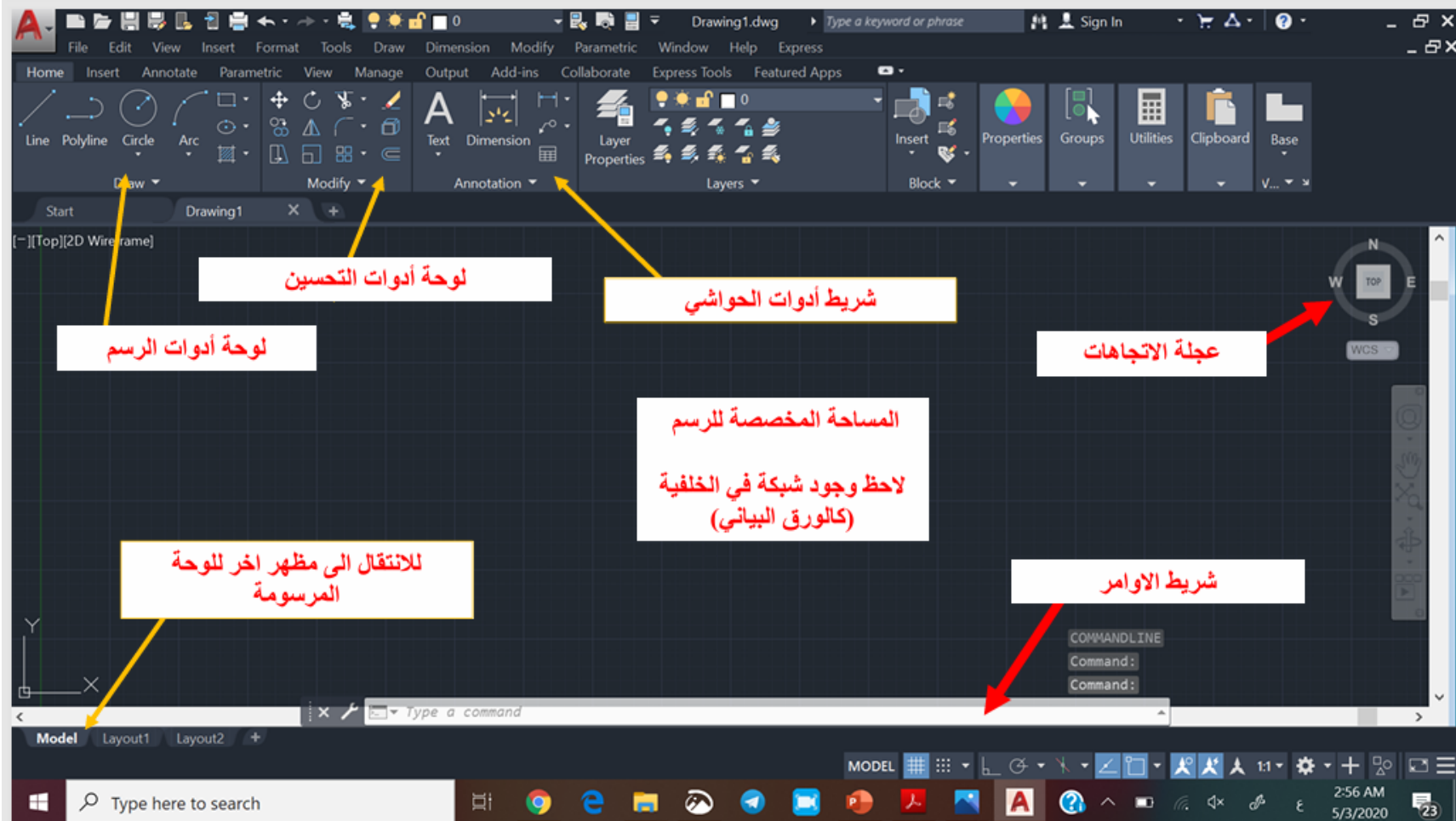






Al-Mustaqbal University
Department (Department of Prosthetics & Orthotics Engineering)
Class (First)
Subject (Computer aided drawing)
Lecturer (Asst.Lec.Ghadeer Haider Abbas)
1st term – Lect. 1 (مقدمة عن اوتوكاد)

٢١





Remarks

Units

No Units Are Required In AutoCAD

The Scale:

AutoCAD does not care about units and the user must decide which units of measurement he uses, but the unit used in a single drawing must be unified.

Drawing scale

The suitable and common Scale is ١:١

The appropriate and common drawing scale in AutoCAD is ١:١.

This scale is during drawing

But you can use the appropriate drawing scale for printing and according to the size of the printing paper.