Al-Mustaqbal University
Department (Department of Building and Construction Engineering Technology)
Class (First)
Subject (Engineering drawing)
Lecturer (Asst.Lec.Israa Mohsain Kathim)
1st term – Lect. (Drawing settings)

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Autocad
Lecture 2

Setup of the units
Setup of the drawing grid

Email (Israa.Mohsin.Kadhim@uomus.edu.iq)

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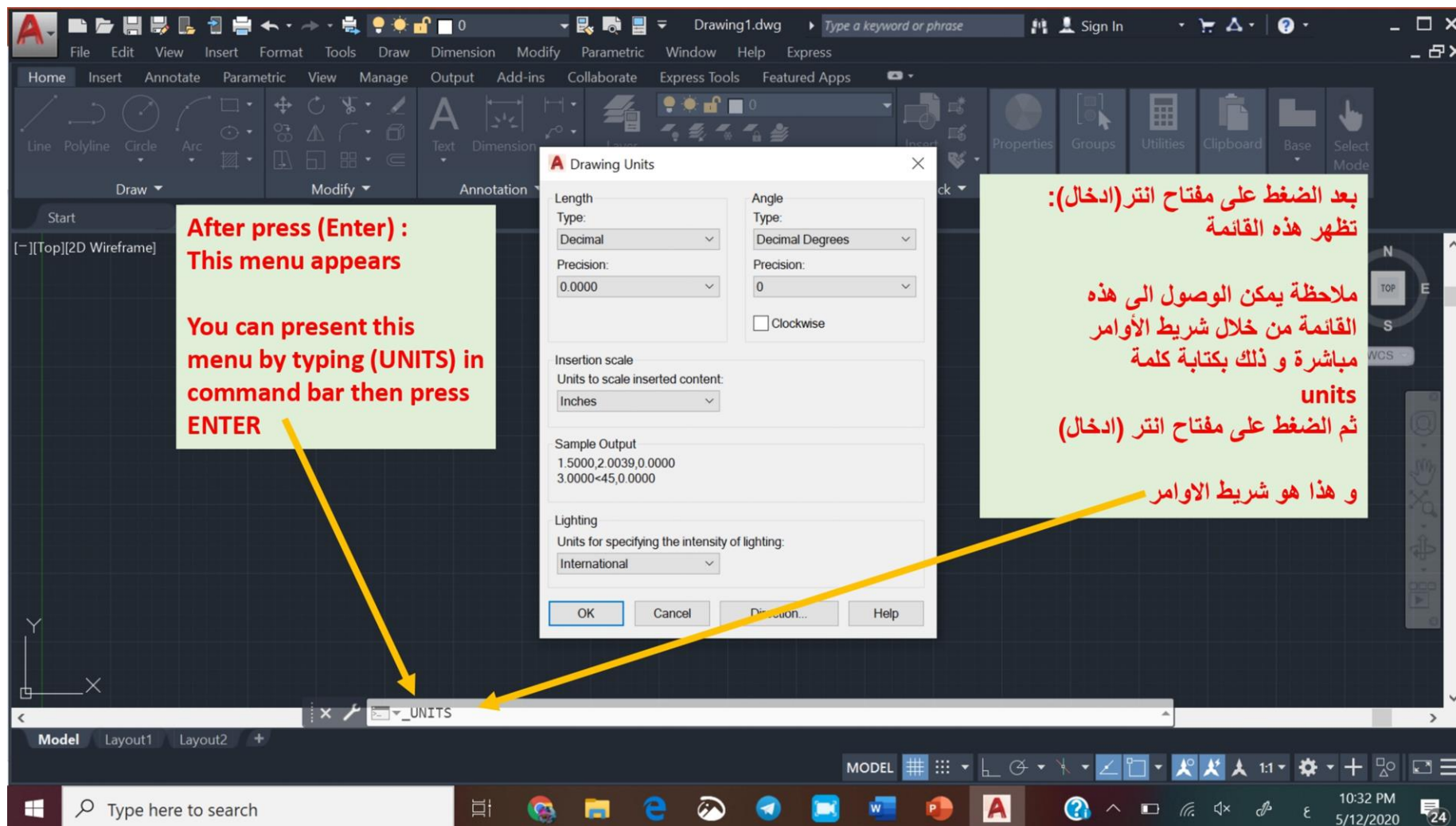1st term – Lect. (Drawing settings)

To setup the units:
Follow the path:
Drawing Utilities -> Units -> Enter

Adjusting drawing units
From the quick access icon
As shown in the picture
Then press Enter
This setting allows:
Control of units
Control of precision (number of ranks after the comma)

Control of how the angle is entered

Note: The setting is specific to what you see while drawing, but the actual values are as

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After press (Enter) :
This menu appears

You can present this
menu by typing (UNITS) in
command bar then press
ENTER

بعد الضغط على مفتاح انتر(ادخال):
تظهر هذه القائمة

ملاحظة يمكن الوصول الى هذه
القائمة من خلال شريط الأوامر
مباشرة و ذلك بكتابة كلمة
units
ثم الضغط على مفتاح انتر (ادخال)

و هذا هو شريط الاوامر

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This is the default inputs
You can make any
suitable changes

See the video

for LENGTH
للأطوال

4 digits after the .
Means high accuracy
اربع مراتب بعد الفارزة
(دقة عالية)

Units   (inches)

الوحدات بالائج

يمكن تغييرها حسب الرغبة

ملاحظة: لا حاجة للوحدات أصلا
في اوتوكاد الا في حالة النسخ من
رسم الى اخر

هذه هي الادخالات الافتراضية و
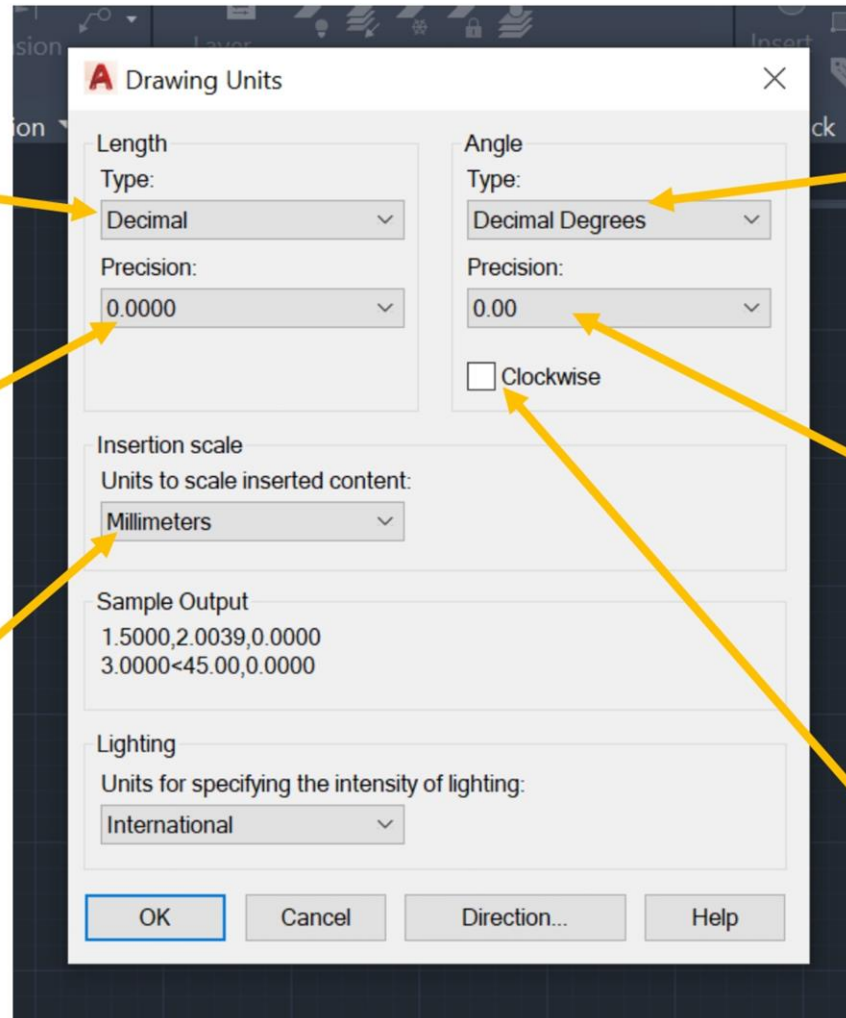يمكنك تغييرها حسب الحاجة

و سيتضح ذلك في الفيديو

for
ANGLES
للأطوال

No digits
لا مراتب بعد الفارزة
(دقة العرض اقل)

لاحظ هذه دقة العرض (ما
تراه على الشاشة اثناء الرسم
فقط)

و لكن دقة القياس كما هي و
حسب ما ادخلتها

شاهد الفيديو

Drawing Units dialog:

Length
Type:
Decimal

Precision:
0.0000

Angle
Type:
Decimal Degrees

Precision:
0

☐ Clockwise

Insertion scale
Units to scale inserted content:
Inches

Sample Output
1.5000,2.0039,0.0000
3.0000<45,0.0000

Lighting
Units for specifying the intensity of lighting:
International

OK   Cancel   Direction...   Help

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No need to change
لا داعي لتغيير هذا الادخال

You can change the accuracy of display
يمكنك تغيير دقة العرض على الشاشة من خلال زيادة المراتب بعد الفارزة

Units changed to (millimeters)

تم تغيير الوحدات و أصبحت بالمليمتر

ملاحظة: لا حاجة للوحدات أصلا في اوتوكاد الا في حالة النسخ من رسم الى اخر

A Drawing Units ✕

Length
Type:
Decimal ⌄

Precision:
0.0000 ⌄

Angle
Type:
Decimal Degrees ⌄

Precision:
0.00 ⌄

☐ Clockwise

Insertion scale
Units to scale inserted content:
Millimeters ⌄

Sample Output
1.5000,2.0039,0.0000
3.0000<45.00,0.0000

Lighting
Units for specifying the intensity of lighting:
International ⌄

| OK | Cancel | Direction... | Help |

Decimal Degrees for angles
استخدام النظام العشري يمكن تغيير النظام الى نظام الدرجات و الدقائق و الثواني او غير ذلك من أنظمة ادخال الزاوية

The digit after .
Where increased to be two digits

تم زيادة عدد المراتب بعد الفارزة لزيادة دقة العرض بالنسبة للزوايا

Counterclockwise can be changes to Clockwise

اتجاه الزوايا عكس عقارب الساعة يمكن تغييره ليكون مع عقارب الساعة بالنقر على هذا المربع

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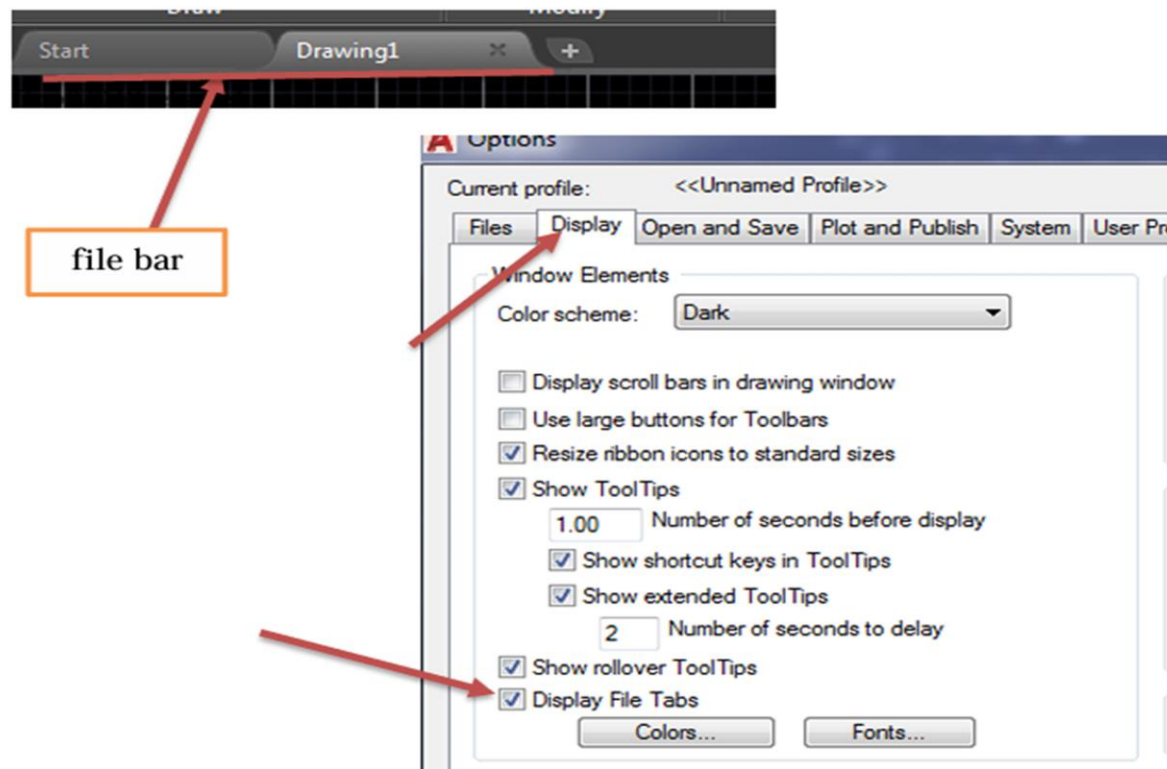Lecturer (Asst.Lec.Israa Mohsain Kathim)
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اظهار واخفاء اشرطة برنامج الاوتوكاد (Show and hide AutoCAD bars)

- **File bar**

When file bar display then go to: option→ Display → Display file bar

عند اختفاء file bar نضغط على الزر الأيمن للماوس ← خيار option ← Display ←
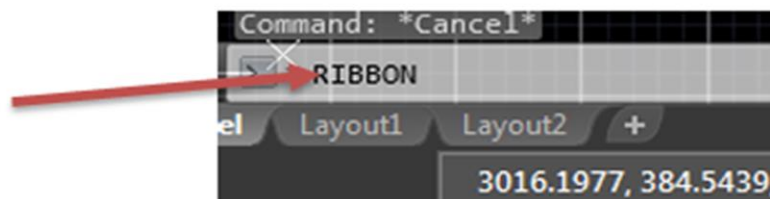يفعل خيار Display file bar

file bar

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• **Menu bar**

(من السهم المنسدل موضح في الصورة نختار)From the drop-down arrow shown in the image, we choose **Show menu bar/or Hide Menu bar**
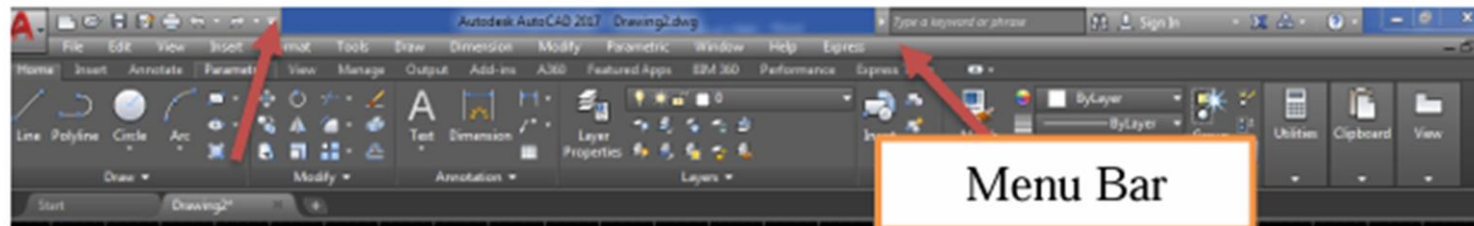
• **Ribbon bar**

-Write **Ribbon** in commend bar and then chose Ribbon to show or chose RibbonClose to disappear the bar.

- Or **(Ctrl+0)** to show ribbon

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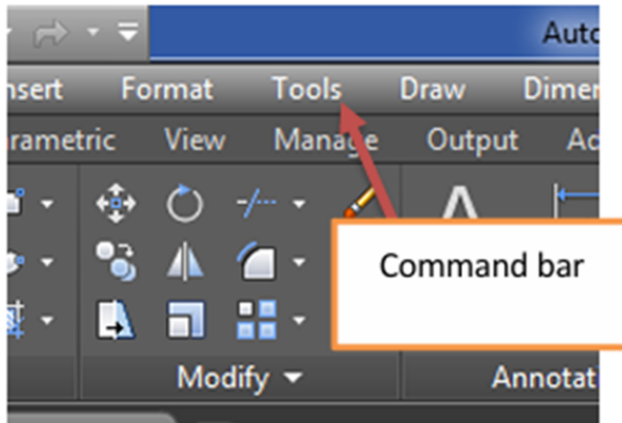1st term – Lect. (Drawing settings)

- **Command bar**
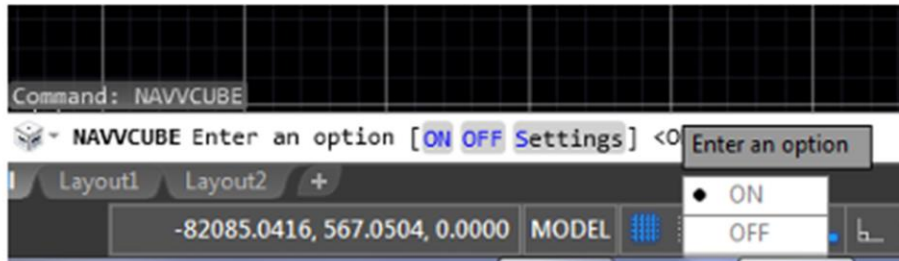
- To show the Command bar press (**Ctrl+9**)
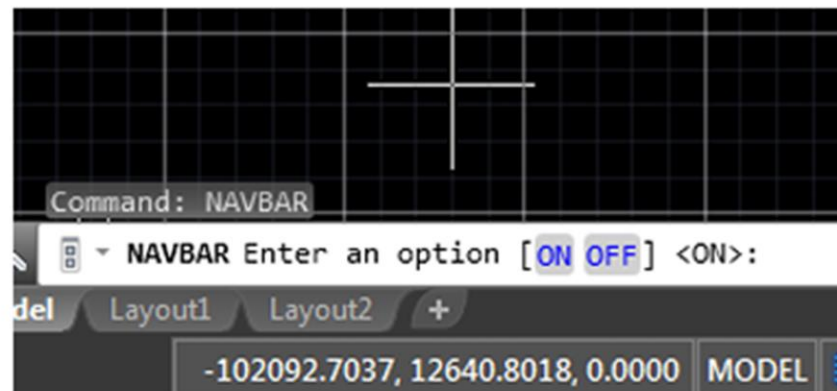
Or from **Tool** →Command bar

- **Navigation bar**

-To show/Hide the **Navigation view cube** write (**Navvcube)** in command bar then press **ON** to show and **OFF** to hide.

-To show/Hide the **Navigation bar** write (**Navvbar)** in command bar then press **ON** to show and **OFF** to hide.

Ema

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Email

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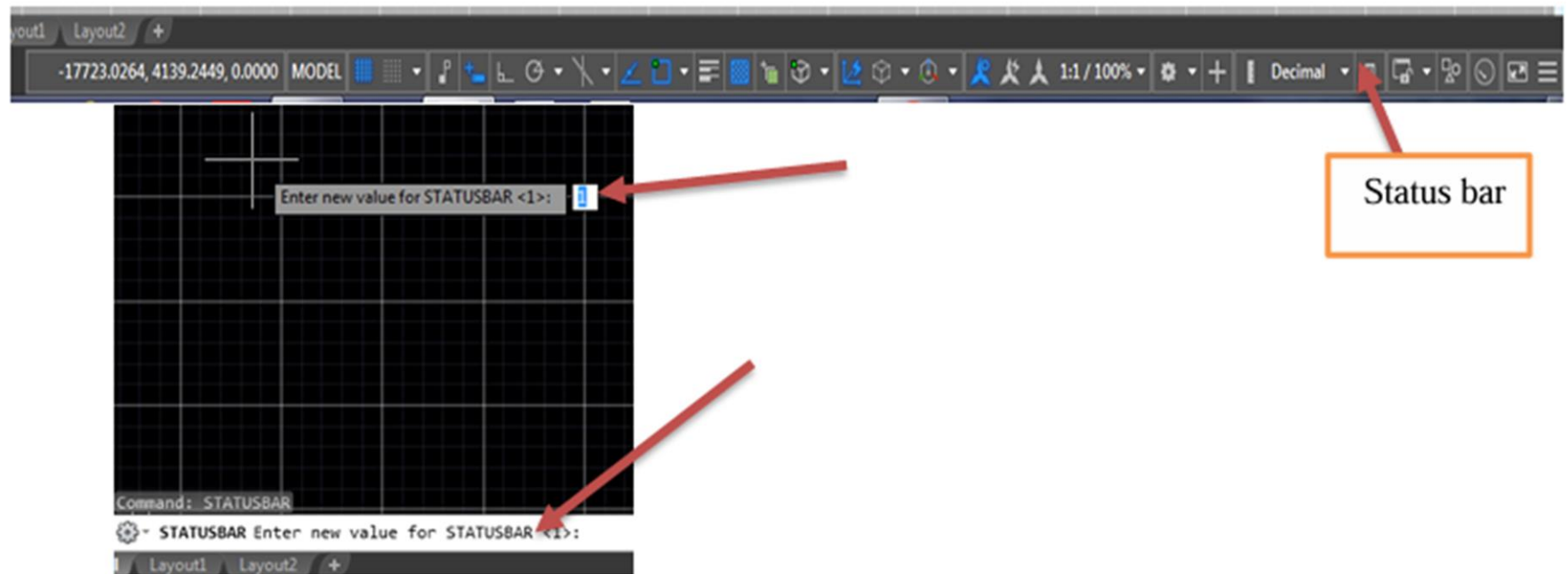Lecturer (Asst.Lec.Israa Mohsain Kathim)
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- **Status bar**

  - Write **statusbar** in command bar and then write (**0**) to disappear this bar
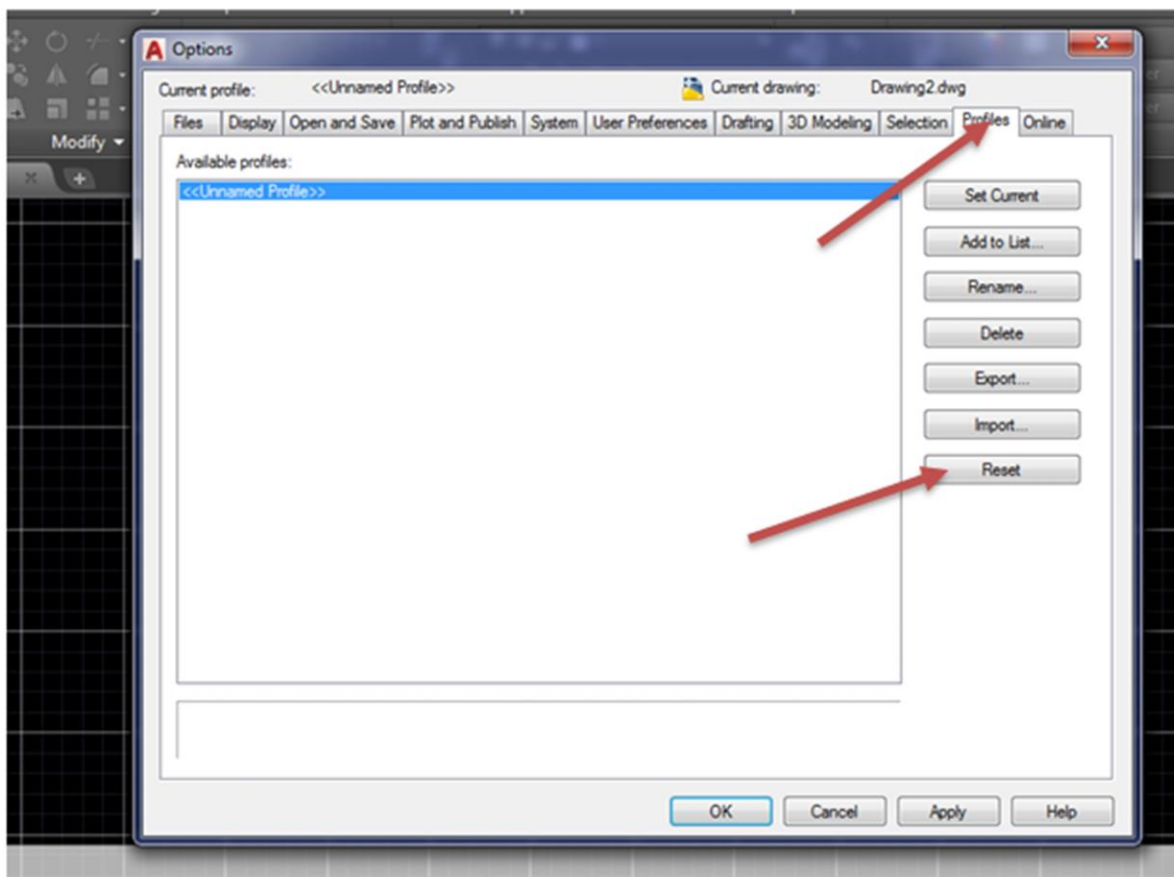 - To show the bar again also write **statusbar** in command bar and then write (**1**)

Status bar

Email

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Note: Completely reset the program and return it to its previous state:
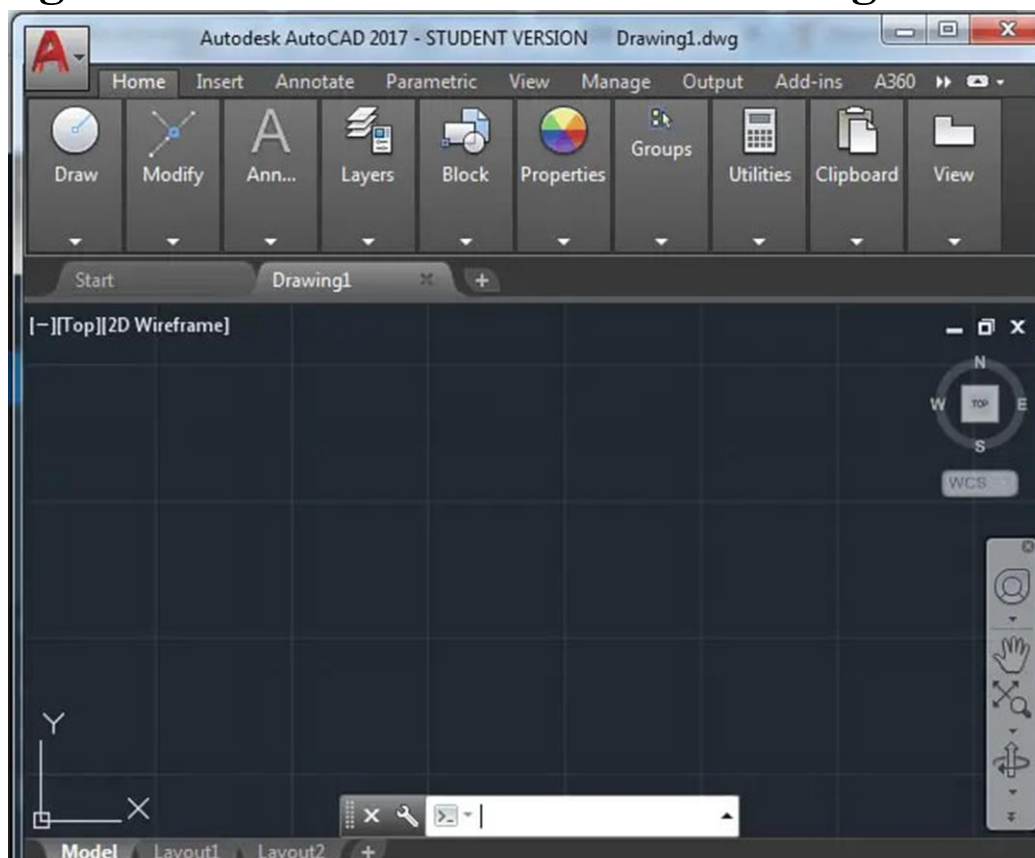
(لإعادة ضبط البرنامج بصوره كاملة واعادته الى سابق):

Right Click → Option → Profile → Reset

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Change the background color in AutoCAD

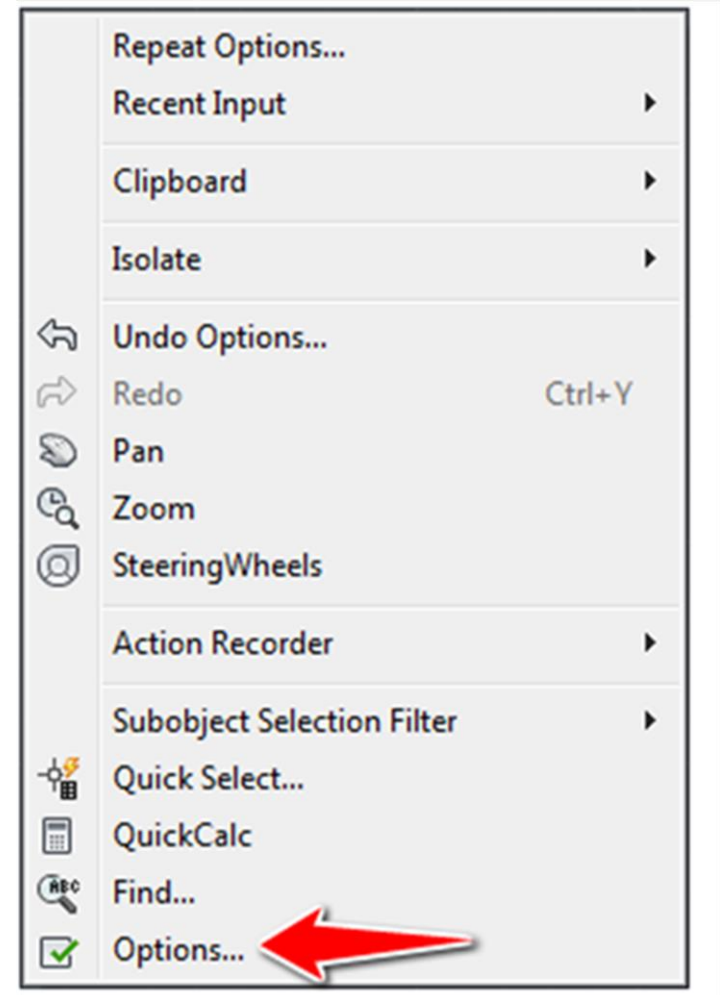**When you install AutoCAD, the default color is gray-black. This is the background I feel most comfortable using these days.**
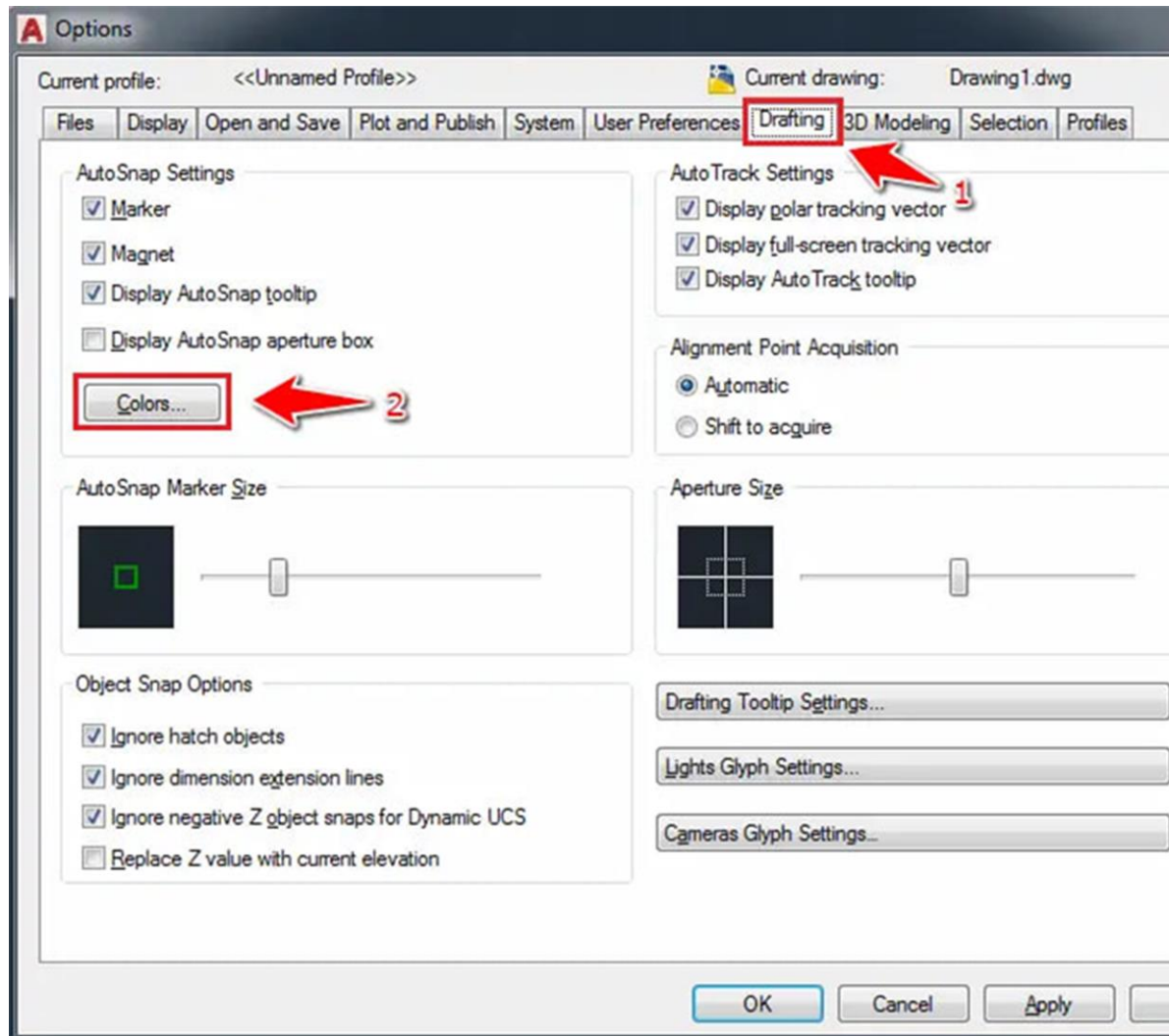
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Change AutoCAD background to black

Right click on the drawing area and select Options…

Repeat Options…	
Recent Input	▶
Clipboard	▶
Isolate	▶
Undo Options…	
Redo	Ctrl+Y
Pan	
Zoom	
SteeringWheels	
Action Recorder	▶
Subobject Selection Filter	▶
Quick Select…	
QuickCalc	
Find…	
Options…	

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Click the Draft tab, and then click Colors.

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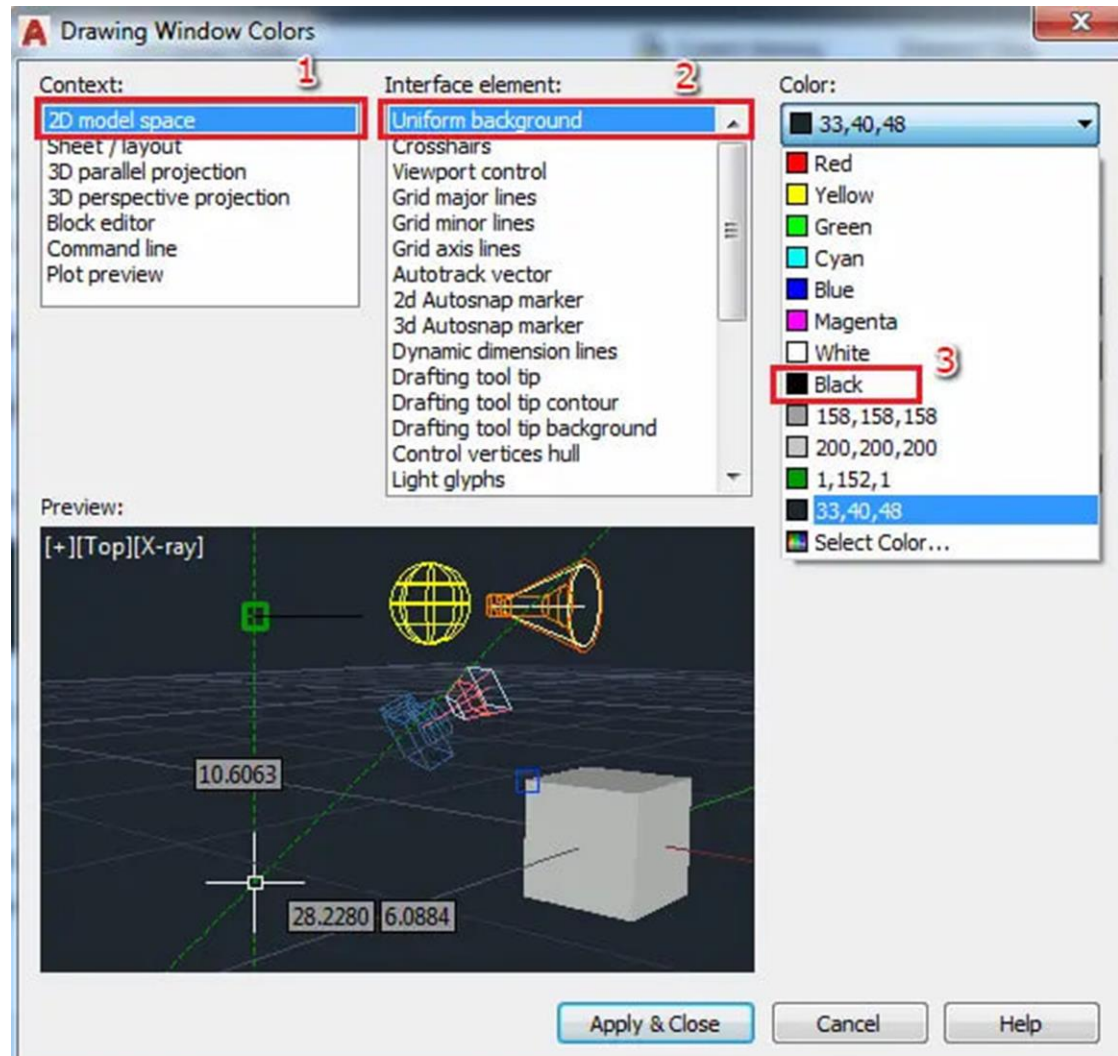
Select

1. 2D model area

2. Uniform background

3. Select black as

4.Dropdown color

5. Click Apply and Close

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Save the drawing as an AutoCAD file

1. Click File > Save As.

2. Choose a location and folder to save the file.

3. When the Save As dialog box appears, change the Save as type drop-down list to

4. either AutoCAD Drawing (*.dwg) or AutoCAD Drawing (*.dwg).

5. Click Save.