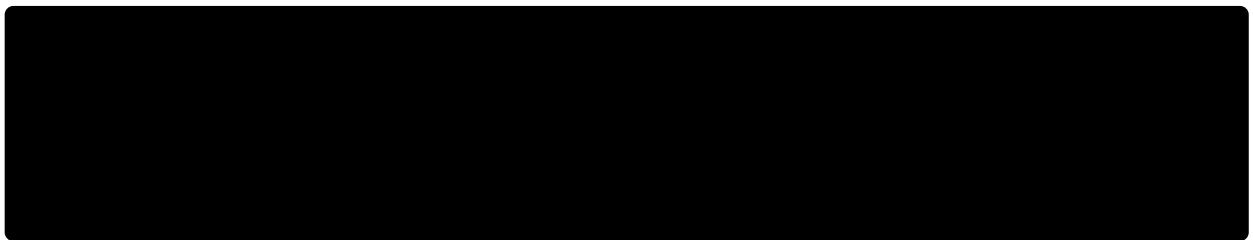


الاسم: نايفه مسعود

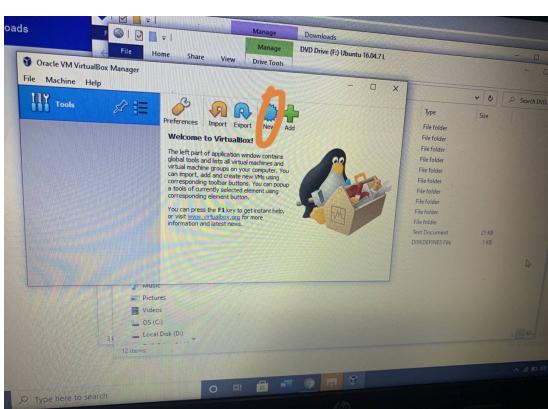
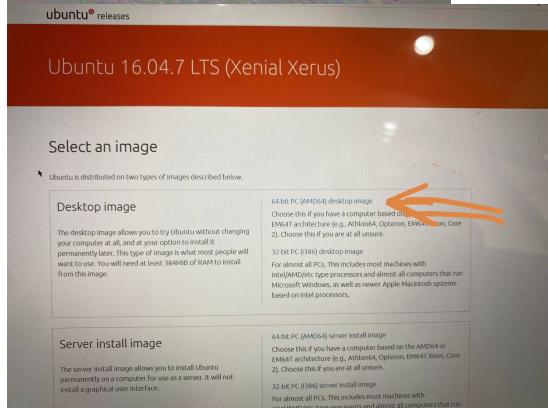
المسار: مسار الروبوت والذكاء الصناعي

المهام: تثبيت و تشغيل باكج الذراع على نظام



اول خطوة حسب نظام الويندز لجهاز
الكمبيوتر
٦٤ بت

- تحميل VirtualBox
- تحميل Ubuntu -16.04.7

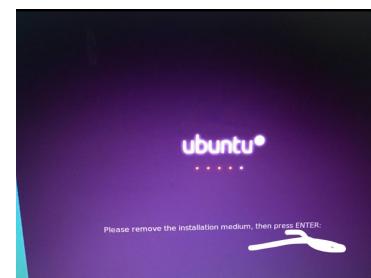
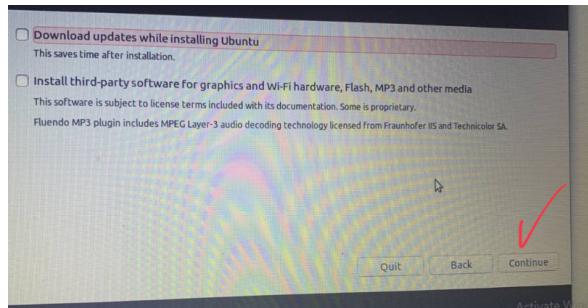
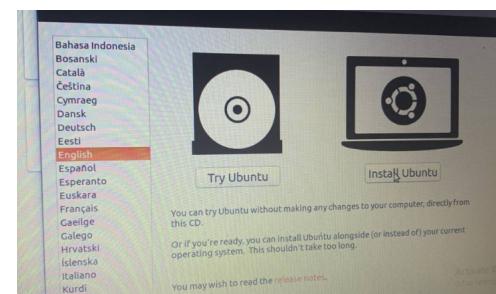
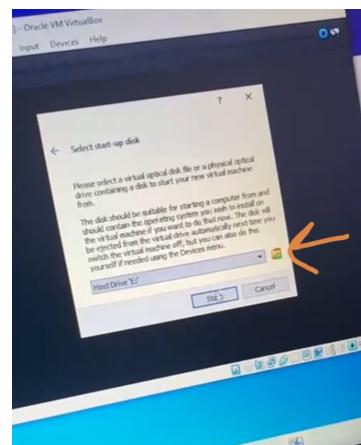
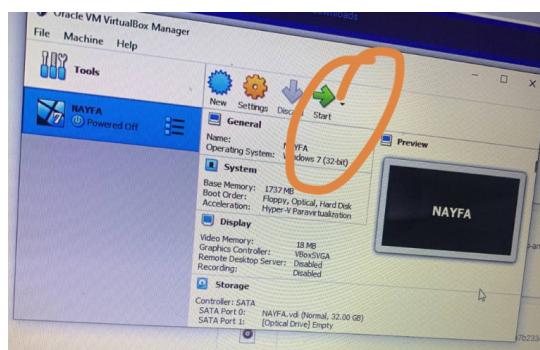
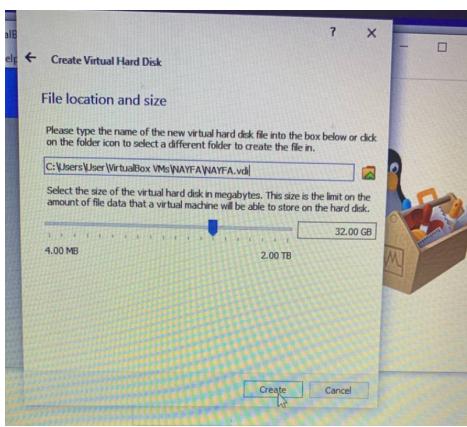
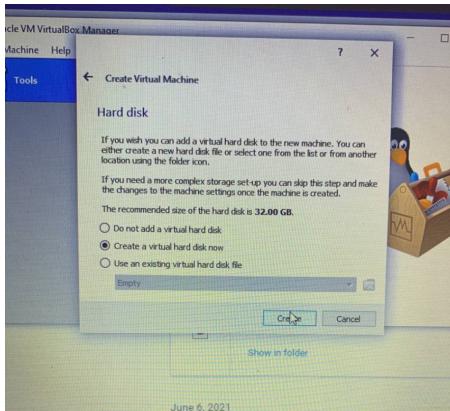
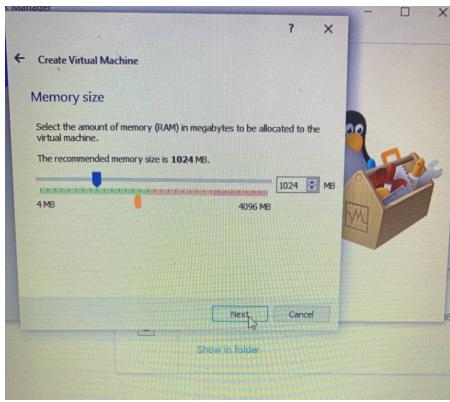


بعد ذالك فتح ال

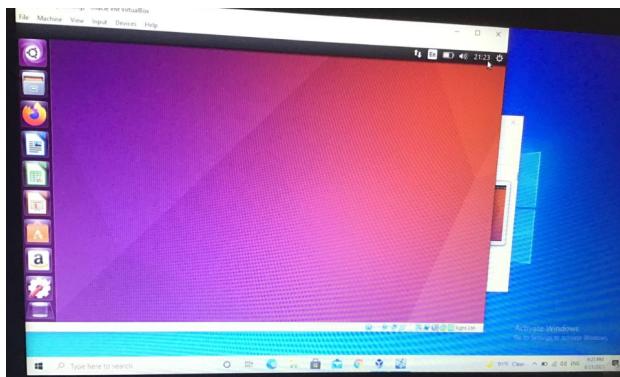
VirtualBox •

واعداده بشكل صحيح

وفتح الاوبنتو ١٦



بعد ذالك سوف يفتح و نبا بتنشيت نظام ROS و تنشيت الـ bkgj الخاص
بالذراع



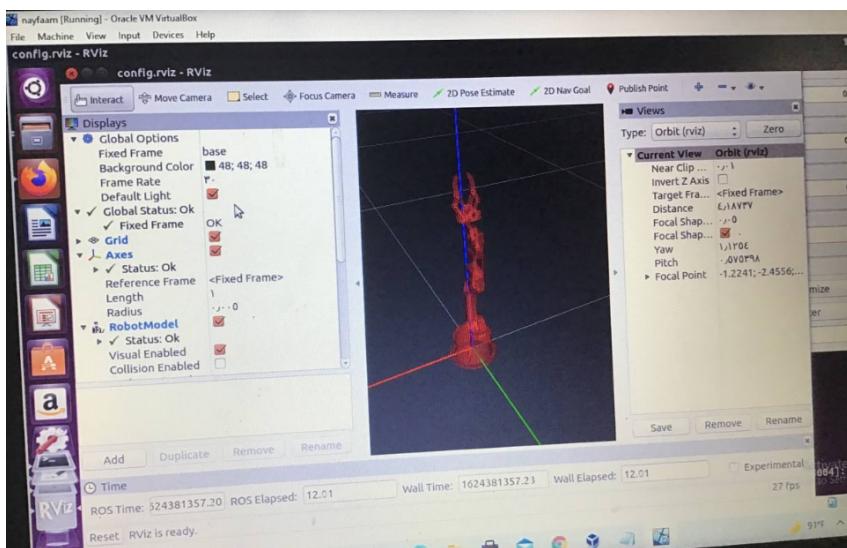
فتح الموقع و اخذ الاوامر منه و تنشيتها بالـ terminal

```

s-m.com.sa/ros.txt
https://s-m.com.sa/ros.txt

sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'
sudo apt-key adv --keyserver 'http://keyserver.ubuntu.com:80' --recv-key C1CF6E31E6BADE8B88B172B4F42ED6FBAB17C654
sudo apt-get update
sudo apt install ros-kinetic-desktop-full
apt-cache search ros-kinetic
echo "source /opt/ros/kinetic/setup.bash" >> ~/.bashrc
source ~/.bashrc
sudo apt install python-rosdep python-rosinstall python-rosinstall-generator python-wstool build-essential
sudo apt install python-rosdep
sudo rosdep init
rosdep update
sudo apt-get install ros-noetic-catkin
mkdir -p ~/catkin_ws/src
cd ~/catkin_ws/
catkin_make
cd ~/catkin_ws/src
git clone https://github.com/smart-methods/arduino_robot_arm.git
cd ~/catkin_ws

```



بعد ذالك افتح ٤ تيرمنال جديـد و اكتب فيه هـذـي الاوامر حتـى يتم تشغيل الذـراع

```

$ roslaunch robot_arm_pkg check_motors.launch
$ roslaunch robot_arm_pkg check_motors_gazebo.launch
$ rosrun robot_arm_pkg joint_states_to_gazebo.py
You may need to change the permission
$ cd catkin/src/arduino_robot_arm/robot_arm_pkg/scripts
$ sudo chmod +x joint_states_to_gazebo.py

```

صور من الذراع

