



Dhirubhai Ambani Institute of Information and Communication Technology

Gandhinagar, Gujarat

## ROBOT PROGRAMMING (IE416)

Mr. Tapas Kumar Maiti

### MICRO PROJECT 3

DHRUVAM SHAH- 202101015

PRANALI THAKKAR- 202101271

SIDDHANT MEENA- 202101273

Youtube Video Link:

<https://youtu.be/ylyGCDhL1Xg>

```
subscriber_node.py
1 #!/usr/bin/env python3
2
3 # ROS subscriber code
4
5 import rospy
6 from std_msgs.msg import String # Correct import statement
7
8 def callback(data):
9     rospy.loginfo("Received Message: %s", data.data)
10
11 def subscriber_node():
12     rospy.init_node('subscriber_node', anonymous=True) # Correct 'anonymous' argument
13     rospy.Subscriber('chatter', String, callback)
14     rospy.spin()
15
16 if __name__ == '__main__':
17     try:
18         subscriber_node()
19     except rospy.ROSInterruptException:
20         pass
```

```
Open publisher_node.py
1 #!/usr/bin/env python3
2
3 # ROS publisher code
4
5 import rospy
6 from std_msgs.msg import String
7
8 def publisher_node():
9     rospy.init_node('publisher_node', anonymous=True)
10    pub = rospy.Publisher('chatter', String, queue_size=10)
11    rate = rospy.Rate(10)
12
13    while not rospy.is_shutdown():
14        message = 'Welcome to IE416'
15        rospy.loginfo(message)
16        pub.publish(message)
17        rate.sleep()
18
19 if __name__ == '__main__':
20     try:
21         publisher_node()
22     except rospy.ROSInterruptException:
23         pass
24
```

```
lmaosid@ubuntu: ~/Desktop
[INFO] [1708512558.997576]: Welcome to IE416
[INFO] [1708512559.497447]: Welcome to IE416
[INFO] [1708512559.197602]: Welcome to IE416
[INFO] [1708512559.297726]: Welcome to IE416
[INFO] [1708512559.397466]: Welcome to IE416
[INFO] [1708512559.497526]: Welcome to IE416
[INFO] [1708512559.597456]: Welcome to IE416
[INFO] [1708512559.697496]: Welcome to IE416
[INFO] [1708512559.797796]: Welcome to IE416
[INFO] [1708512559.897502]: Welcome to IE416
[INFO] [1708512560.437714]: Welcome to IE416
[INFO] [1708512560.497554]: Welcome to IE416
[INFO] [1708512560.197901]: Welcome to IE416
[INFO] [1708512560.297534]: Welcome to IE416
[INFO] [1708512560.497861]: Welcome to IE416
[INFO] [1708512560.597617]: Welcome to IE416
[INFO] [1708512560.697521]: Welcome to IE416
[INFO] [1708512560.797766]: Welcome to IE416
[INFO] [1708512560.897542]: Welcome to IE416
[INFO] [1708512560.996146]: Welcome to IE416
[INFO] [1708512561.097558]: Welcome to IE416
[INFO] [1708512561.197539]: Welcome to IE416
[INFO] [1708512561.297603]: Welcome to IE416
[INFO] [1708512561.397554]: Welcome to IE416
[INFO] [1708512561.497673]: Welcome to IE416
[INFO] [1708512561.597811]: Welcome to IE416
[INFO] [1708512561.697440]: Welcome to IE416
[INFO] [1708512561.797483]: Welcome to IE416
[INFO] [1708512561.897778]: Welcome to IE416
[INFO] [1708512561.998216]: Welcome to IE416
[INFO] [1708512562.097457]: Welcome to IE416
[INFO] [1708512562.197660]: Welcome to IE416
[INFO] [1708512562.297511]: Welcome to IE416
[INFO] [1708512562.397656]: Welcome to IE416
[INFO] [1708512562.497689]: Welcome to IE416
[INFO] [1708512562.597781]: Welcome to IE416
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[INFO] [1708512563.197530]: Welcome to IE416
[INFO] [1708512563.297572]: Welcome to IE416
[INFO] [1708512563.397722]: Welcome to IE416
[INFO] [1708512563.497614]: Welcome to IE416
[INFO] [1708512563.597638]: Welcome to IE416
[INFO] [1708512563.697595]: Welcome to IE416
[INFO] [1708512563.797578]: Welcome to IE416
[INFO] [1708512563.897634]: Welcome to IE416
[INFO] [1708512563.997852]: Welcome to IE416
[INFO] [1708512564.097836]: Welcome to IE416
```