1. Student.py

#!/usr/bin/env python

```
import rospy
from msg_send.msg import my_msg
from std_msgs.msg import String
done = False
def call_back(data):
        msg = data.data
        if (''aana Soo-Rim' in msg):
                print(msg)
        else:
                print("waiting")
        done = True
rospy.init_node('student', anonymous=True)
pub=rospy.Publisher('msg_to_xycar', my_msg, queue_size=1)
rospy.Subscriber('msg_from_xycar', String, call_back)
rate = rospy.Rate(0.5)
msg = my_msg()
msg.first_name = "Soo-Rim"
msg.last_name = " "
```

rosrun msg_send remote_student.py

```
👂 🖨 📵 remote_student.py (~/xycar_ws/src/msg_send/src) - gedit
  열기(O) ▼ 用
#!/usr/bin/env python
import rospy
from msg_send.msg import my_msg
from std_msgs.msg import String
done = False
def call_back(data):
         msg = data.data
if (' Soo-
                      Soo-Rim' in msg):
                   print(msg)
         else:
                   print("waiting")
          done = True
rospy.init_node('remote_student', anonymous=True)
pub=rospy.Publisher('msg_to_xycar', my_msg, queue_size=1)
rospy.Subscriber('msg_from_xycar', String, call_back)
rate = rospy.Rate(0.5)
msg = my_msg()
msg.first_name = "Soo-Rim"
msg.last_name =
msg.age = 15
msg.score = 100
msg.id_number = 12345678
msg.phone_number = "010-0000-0000"
while not rospy.is_shutdown() and not done:
    pub.publish(msg)
          print("sending message...")
          rate.sleep()
```

2. Teacher.py

```
#!/usr/bin/env python
import rospy
from msg_send.msg import my_msg
from std_msgs.msg import String
import time
def call_back(data):
        st_name=data.last_name+' '+ data.first_name
        curr_time=time.strftime('%Y-%m-%d %H:%M"%S', time.localtime())
        st_name2='Good morning. '+st_name+' ' +curr_time
        pub.publish(st_name2)
rospy.init_node('teacher', anonymous=True)
pub=rospy.Publisher('msg_from_xycar', String, queue_size=1)
sub=rospy.Subscriber('msg_to_xycar', my_msg, callback)
rospy.spin()
```

<mark>3. 통신 결과</mark>

```
soorim@soorim-virtual-machine:~$ rosrun msg_send remote_student.py
sending message...
waiting
waiting
sending message...
Good morning, Soo-Rim 2020-12-24 16:25:57
waiting
waiting
sending message...
Good morning, Soo-Rim 2020-12-24 16:25:59
waiting
waiting
waiting
sending message...
Good morning, Soo-Rim 2020-12-24 16:26:01
waiting
waiting
waiting
```