```python
# By submitting this assignment, we agree to the following:
#  "Aggies do not lie, cheat, or steal, or tolerate those who do"
#  "We have not given or received any unauthorized aid on this assignment"
#
# Name:        Rushil Udani, Collin Stafford, Braeden Stewart, Grant Trusty
# Section:     219
# Assignment:  Lab #3 Activity 1
# Date:        10/09/2020

#-------------------------POUNDS TO NEWTONS-----------------------#
pounds = float(input("Input the weight in pounds: "))
#1 pound = 4.4482216 Newtons
newtons = pounds * 4.4482216
print(pounds, "pounds is equivalent to", newtons, "Newtons.")
print("")

#-------------------------BTUs TO JOULES-----------------------#
BTU = float(input("Input the energy in BTUs: "))
#1 BTU = 1055.05585262 J
joules = BTU * 1055.05585262
print(BTU, "BTUs is equivalent to", joules, "Joules.")
print("")

#-------------------------MILES PER HOUR TO METERS PER SECOND-----------------------#
mph = float(input("Input the speed in miles per hour: "))
#1 mile = 1609.34 meters
#1 hour = 3600 seconds
mps = mph * 1609.34
mps = mps / 3600
print(mph, "miles per hour is equivalent to", mps, "meters per second.")
print("")

#-------------------------------FAHRENHEIT TO CELSIUS-------------------------------#
fahrenheit = float(input("Input the temperature in degrees Fahrenheit: "))
# °C = (°F − 32) × 5/9
celsius  = (fahrenheit - 32) * (5 / 9)
print(fahrenheit, "degrees fahrenheit is equivalent to", celsius, "degrees celsius.")
```