**André Vargas HW1**

**(Python lecture)**

#question 2

message1 = """first the parentesis

then multiplications and divisions

finally add."""

#2 + 2\* 10/5 \* 5

#2 + 100/5

# 2+20 = 22

print (message1)

print(2 + (3 - 1) \* 10 / 5 \* (2 + 3))

#question 4

start\_str = input("Please enter the number of the day in which you will start")

lenght\_str = input("What is the lenght of your stay?(nights)")

#change fromat

start\_int = int(start\_str)

lenght\_int = int(lenght\_str)

#add days for total

days = start\_int + lenght\_int

#put them in a limit of 7 days

total = (days % 7)

print(total)

#question 6

print(6 \* 1 - 2) #4

print(6 \* (1 - 2)) #-6

#question 8 area of a circel calc

#A = pi\*(r\*\*2)

pi=3.1416

radius\_str = input("What is the raidus of the circle?")

#change fromat

radius\_int = int(radius\_str)

A = pi\*(radius\_int\*\*2)

#with friendly message

print ("The area of the circle with", radius\_int, "of radius is:", A)

#question 10

#mpg = M/G

m\_str = input("how many miles have you driven?")

g\_str = input("how many galons have you used?")

#change fromat

m\_f = float(m\_str)

g\_f = float(g\_str)

mpg = m\_f/g\_f

print ("The MPG of your car is:", mpg)

#question 12

#farenheit to celsius... ok :)

F\_str = input("what is the degrees in Farenheit?")

#change fromat

F\_f = float(F\_str)

C = (F\_f - 32) \* 5/9

print(F\_f, " degrees Farenheit is", C, " degrees Celsius.")

**Make an algorithm of your morning routine**

1. “alarm sounds”
2. Check time
   1. Evaluate if I had enough sleep and can sleep a little bit more.
      1. If I had enough sleep = wake up
         1. Get up from bed
         2. Take towel and stuff
         3. Get a bath
         4. Check time to be sure how much you can procrastinate in the shower
         5. Procrastinate in the shower (planning the day)
         6. Dress up
         7. Have breakfast (really fast probably)
         8. Brush your teeth
         9. Get stuff make sure you don’t forget anything
         10. Close door (make sure)
         11. Get bike
         12. Bike to university
      2. If I haven’t = incur cost (no breakfast) for more sleep
         1. Get up from bed (curse a little bit)
         2. Take towel and stuff
         3. Get a bath
         4. Check time to be sure how much you can procrastinate in the shower
         5. Procrastinate in the shower (planning the day)
         6. Dress up (really fast)
         7. Brush your teeth
         8. Get stuff make sure you don’t forget anything
         9. Close door (make sure)
         10. Get bike
         11. Bike to university