range

In [ ]: print(list(range(10)))
In [ ]: print(list(range(1,10)))
In [ ]: print(list(range(1,11,2)))
In [ ]: print(list(range(11,1,-1)))

Simple for loop

In [ ]: for i in range(5): # 0, 1, 2, 3, 4
    print("Hello", i)

Ask the user for the number of iterations

In [ ]: n = eval(input("Enter the number of iterations"))
for i in range(n):
    print("round", i)

find the average of 5 numbers entered by the user

In [ ]: total = 0
for i in range(5):
    # read a value from the user
    num = eval(input("Enter a number "))
    total = total + num
    print("i =", i, "num =", num, "total =", total)
print("average = ", total / 5)

Counter-controlled while loop

In [ ]: total = 0
i = 0 # loop control variable
while (i < 5): # condition
    # print(i)
    num = eval(input("Enter a number "))
    total = total + num
    i = i + 1 # update statement
print("average = ", total / 5)

Write a program the prints the sum of odd numbers between 1 to 100
(using if statement)

In [ ]: oddTotal = 0
for i in range(100):
    # test i
    # if the i is odd, then add it to oddTotal
    if i % 2 != 0:
        oddTotal += i
print("odd total from 1-100 = ", oddTotal)