```
# 1. write a command that produces this output List: [2, 4, 6, 8, 10, 12, 16]
list1 = [x for x in range(2,13,2)]
list1.extend([16])
print(list1)
    [2, 4, 6, 8, 10, 12, 16]
# 2. write a command that produces this output List: [201, 191, 181, 171, 161]
print(list(range(201,160,-10)))
    [201, 191, 181, 171, 161]
# 3. Combine two strings and print the three strings
greetings = 'Hello hi bonjour '
print(greetings)
farewells = 'Goodbye bye adios '
print(farewells)
courtesy = greetings + farewells
print(courtesy)

    Hello hi bonjour

    Goodbye bye adios
    Hello hi bonjour Goodbye bye adios
# 4. sum up 10 random numbers and present the result
import random
a = [random.uniform(1,10) for i in range(10)]
print(a)
def mysum(a):
  return sum(a)
g = mysum(a)
print(q)
    [5.518869153142528, 2.9369401036267075, 2.8758023424276153, 7.1455702485937955, !
    54.50056978848481
# 5. present the code and calculations for this math formula
k1 = 10
sum1 = 0
for k1 in range(1, k1+1):
```

```
sum1 = sum1 + (1/K1)
print(sum)

k2 = 1000
sum2 = 0
for k2 in range(1, k2+1):
    sum2 = sum2 + (1/k2)
print(sum2)

k3 = 10000
sum3 = 0
for k3 in range(1, k3+1):
    sum3 = sum3 + (1/k3)
print(sum3)

2.9289682539682538
7.485470860550343
9.787606036044348
```