'''1. Input your name into a variable called $name and then print "Hello, <your name here>". '''

name = "Hello"

print(name)

'''2. Write a program that adds two numbers and then prints out whether the sum of those two numbers is positive or negative. '''

a = 2 #int(input("enter number1:"))

b = -7 #int(input("enter number2:"))

if (a+b)>0:

print("positive")

else:

print("negative")

'''3. Write a program that stores a number and keeps trying to get user input until the user enters the number correctly.

As soon as the correct number is entered, it prints: Correct! '''

while int(input("enter passkey to close the program:"))!=10:

continue

print("Correct!")

'''4. Input your first name and last name as two separate variables, labeled as $firstname and $lastname respectively.

Concatenate them together using the dot operator '.' into a new variable called $wholename. Then print out the $wholename.'''

first = "Hirak"

last = "Dutta"

wholename = " ".join([first,last])

print(wholename)

'''5. Write a program to accept an input string from the user and toggle the character cases.

For example, $str=” Hello How Are You?”

O/p : hELLO hOW aRE yOU '''

str = input("enter string:")

print(str.swapcase())

'''6. Write a program which will perform sum and multiplication ,that sums and multiplies (respectively) all the numbers in a list of numbers.

For example, sum([1, 2, 3, 4]) should return 10, and multiply([1, 2, 3, 4]) should return 24. '''

add=0

for x in [1,2,3,4]:

add = add+x

print(add)

mul = 1

for x in [1,2,3,4]:

mul = mul\*x

print(mul)

'''

7. Write a program that takes a value (i.e. a number, string, etc) x and a list of values a, and returns True if x is a member of a, False otherwise.

(Note that this is exactly what the in operator does, but for the sake of the exercise you should pretend Python did not have this operator.) '''

mat = [1,2,3,4,5,6]

x = int(input("enter search value:"))

boolean = False

for i in range(len(mat)):

if mat[i] == x:

boolean = True

break

print(boolean)

'''

8. Write a program that has two lists and print True if they have at least one member in common, False otherwise.

You may use your is\_member() function, or the in operator, but for the sake of the exercise, you should (also) write it using two nested for-loops.

'''

l1 = [1,2,3,4,5,6,7]

l2 = [1,2,8,9,77,55,66]

boolean = False

for i in range(len(l1)):

for j in range(len(l2)):

if l1[i] == l2[j]:

boolean = True

break

if boolean:

break

print(boolean)

'''9. Write a program for histogram that takes a list of integers and prints a histogram to the screen.

For example, histogram([4, 9, 7]) should print the following: '''

list((map(lambda a : print("\*"\*a),[1,2,3,4,3,2,1])))