Dylan

Module B.3 Intermediate Python Programming

**Level 1: Input & Logic**

1. Read through “Lesson 12: Input – What Is Input?” and “Lesson 12: Input – Example” and “Lesson 12: Input – Shortcut”.
2. Type the following code into the white area of the IDE and run the program. Explain what you see in the black area of the IDE.

print("Type your name:")

name = input()

print("Hi", name, "how are you?")

The program would tell me to type my name and then I typed my name into the black area of the IDE. When I typed my name in the black area of the IDE it typed “Hi Dylan how are you?”.

1. Complete “Lesson 9: Logic – Many Choices” by typing the sample commands in the white area of the IDE.
   1. Combine the lesson code with the code from question #2 above to create a logic choice based on input read from the console.
   2. If the typed name equals your name then print out “Hello Me!”
   3. Else if the typed name equals your friend’s name then print out “Hello Friend.”
   4. Else print out “Who are you?”
   5. Provide your complete program below.

This is the code that I made

print("Type your name:")

myname = "Dylan"

myname = input()

if myname == "Dylan":

print("Hello me!")

elif myname == "Steve":

print("Hello Friend.")

else:

print("Who are you?")

**Level 2: Loops**

1. Complete “Lesson 10: Loops – What Are Loops” and “Lesson 10: Loops – Counting Loops” by typing the sample commands in the white area of the IDE.
   1. Modify the loop to start at 0 and repeat 5 times..
   2. Provide your modified code and resulting output below.

for mynum in [0, 1, 2, 3, 4, 5]:

print("Hello", mynum)

1. Create a list of the names of at least 5 of your friends and use a counting loop to print out their names as follows:.
   1. Create a list of the names of at least 5 of your friends.
   2. Identify the highest list index (i.e. Index of the last name.)
   3. Create a counting loop to loop over the list indexes
   4. Use the loop index number to print “Hello “ + name for each of your friends.
   5. Provide your modified code and resulting output below.

for friendnum in ["Jordon", "Harjot", "Raghav", "Anikat", "Kevin"]:

print ("Hello", friendnum)

The index of the last name in the list is 4 and the name is Kevin.

friendnum[4]

=> 'Kevin

1. Complete “Lesson 10: Loops – Conditional Loops” by typing the sample commands in the white area of the IDE.
   1. Modify the loop to stop when the count becomes greater than 5.
   2. Provide your modified code and resulting output below.

mycount = 0

while (mycount < 7):

print('The count is:', mycount)

mycount = mycount + 1

1. Create a list of the names of at least 5 of your friends and use a conditional loop to print out their names as follows:.
   1. Use your list of friends from question #2 above
   2. Create a conditional loop to loop over the list indexes
   3. Use the loop index number to print “Hello “ + name for each of your friends.
   4. Provide your modified code and resulting output below.

#define a list to store all the names

friendnum = ["Jordon", "Harjot", "Raghav", "Anikat", "Kevin"]

#Assign the index number to each of the names so we can access it

#we need a variable to count how many objects from the list have been outputted so i will call this

#mycount

mycount = -1

#create a condtional loop to run only 5 outputs

while (mycount < 4):

mycount = mycount + 1

#as mycount increases the variable changes so it can acces the next name in the list

print("Hello", friendnum[mycount])

**Level 3: Functions**

1. Complete “Lesson 11: Functions – Functions” by typing the sample commands in the black area of the IDE.
   1. Create a list of instructions for tying your shoes..
   2. Provide your shoe tying function below.

Instructions for tying a shoe lace

1. First you put the shoe laces in your hands.
2. Then you fold the laces into a bunny ear shape.
3. Next cross the bunny ears, that it would form a “X”.
4. Then you would loop the one bunny ear under the other one
5. Lastly you pull the laces to tighten the knot.

This is the function that I made.

tying\_shoes (lace, bunny ear, cross, loop, pull)

What the words in my function mean

The word “lace” would mean you have to hold the laces. The words “bunny war” would mean fold the laces into bunny ears. The word “cross” would mean you are crossing the bunny ear laces. The word “loop” would mean that you are looping the bunny ear laces. Lastly the word “pull” would mean that you are pull the laces to tighten the knot.