**Python Exercises**

1. Assigning values to variables.

x = 10

y = 6

1. Printing x and y.

print(x)

print(y)

1. Adding x and y and printing it.

print(x+y)

OR

c=x+y

print(c)

1. Assigning string to a variable.

a = "Hello, Python!"

print(a)

1. Accepting text input from the user.

print("Enter your name:")

n = input()

print("My name is " + n)

1. Accepting numerical input from the user.

m = input()

m = int(m)

print(m)

1. Displaying the type of data.

type(m)

type(n)

1. Displaying length of a string.

print(len(a))

1. Splitting a string.

b = a.split(",")

print(b[0])

print(b[1])

1. Conditional statement if.

m=7

if m > 3 and m <10:

print("BINGO!..")

1. For loop in Python.

thisset = {"banana", "mango", "strawberry", "apple"}

for x in thisset:

print(x)

1. Study the following code and write the output.

fruits = {"Apple", "Strawberry", "Mango", "Banana", "Kiwi"}

print("Enter the name of your favorite fruit:")

fruit = input()

fruits.add(fruit)

print("The new fruit list is:")

for x in fruits:

print(x)

1. Finding common words between the two sets.

s1 = {"A", "graph", "based", "on", "the", "geographical", "locations", "is", "called", "as"}

s2 = {"A", "group", "of", "some", "but", "not", "all", "of", "the", "elements", "or", "observations"}

s3 = set(s1)&set(s2)

print(s3)