Name: Maim Hoque

Python for Data Analytics

1. What is Python and why is it useful?

Python is an object oriented programming language that is very versatile and powerful. It can be used for a variety of purposes and is applicable in a wide range of settings such as data analytics, websites, and even video games. For our class and especially in the industry it can be used to analyze extremely large datasets

1. Are the following variable names allowed in python?
   1. 1\_message
   2. Greeting\_message
   3. Message\_1
   4. First name
   5. Full\_name

All of the variable names are allowed in Python with the exception of a and d. A because it starts with a number and D, because there is a gap.

1. Create a variable that holds the string “hello there!”

HelloWorld = "Hello World"

1. Create a variable for first name, last name and an email extension. Concatenating all three together to form an email address. For example: [firstnamelastname@gmail.com](mailto:firstnamelastname@gmail.com)

first\_name = 'Maim'

last\_name = 'Hoque'

email\_extension = '@gmail.com'

fullemail\_extension = first\_name + last\_name + email\_extension

print(fullemail\_extension)

1. Store someone you know name in a variable called name. Print their name in lower and uppercase using a method.

President= 'Joe Biden'

print (President.upper())

print (President.lower())

1. Using a variable, ask your friend if they want to hang out on the 15th of the month. For example, “Do you want to hang out on the 15th of this month?” You should have to convert the number to a string.

Date = 15

print('Do you want to hang out on the ' + str(Date) + 'th of this month?')