Assignment 1

MCQ

1. What will be the output of the following code snippet?  
   def func(a,b):

return b if a==0 else func(b%a,a)

print(func(30,75))

Answer:15

1. numbers = (4, 7, 19, 2, 89, 45, 72, 22)

numbers = (4, 7, 19, 2, 89, 45, 72, 22)

sorted\_numbers= sorted(numbers)

even=lambda a:a%2==0

even\_numbers= filter(even,sorted\_numbers)

print(type(even\_numbers))

Answer: Filter

1. As what datatype are the \*args stored, when passed into

Answer: Tuple

1. set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

Answer: Error

1. What keyword is used in Python to raise exceptions?

Answer: Raise

1. Which of the following modules need to be imported to handle date time computations in Python?

Answer: datetime

1. What will be the output of the following code snippet?

print(4\*\*3 + (7 + 5)\*\*(1 + 1))

Answer: 208

1. Which of the following functions converts date to corresponding time in Python?

Answer: strptime

1. The python tuple is \_\_\_\_\_ in nature.

Answer: immutable

1. The \_\_\_ is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop.

Answer: range

1. Amongst which of the following is a function which does not have any name?

Answer: Lambda

1. The module Pickle is used to \_\_\_.

Answer: both A and B

1. Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

Answer: dump()method

1. Amongst which of the following is / are the method used to unpickling data from a binary file?

Answer: load()

1. A text file contains only textual information consisting of \_\_\_.

Answer: All of the mentioned above

1. Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.) captains={"Enterprise":"Picard","Voyager":"Janeway","Defiant":"Sisko",}

Answer: both A and B

1. Which of the following lines of code will create an empty dictionary named captains?

Answer: Answer: captains = {}

1. Now you have your empty dictionary named captains. It’s time to add some data!

Answer: "Enterprise": "Picard",

"Voyager": "Janeway",

"Defiant": "Sisko",

1. You’re really building out the Federation Starfleet now! Here’s what you have: captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", "Discovery": "unknown", }Now, say you want to display the ship and captain names contained in the dictionary, but you also want to provide some additional context. How could you do it?

Answer: for ship, captain in captains.items():

print(f"The {ship} is captained by {captain}.")

1. You’ve created a dictionary, added data, checked for the existence of keys, and iterated over it with a for loop. Now you’re ready to delete a key from this dictionary: captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", "Discovery": "unknown", }

Answer: captains.remove()