1. Write a Python Script showing usage of all data types.

Ans: see the program in outside of this file named py\_data.py

1. Which of these in not a core datatype?

Ans: Class is not a core data type

1. Following set of commands are executed in shell, what will be the output?

str="hello" print str[:2]

Ans: output: he

1. What error occurs when you execute?

Ans: Syntax Error because others are just exceptions and we can handled the exceptions using exceptionalhandlers(in this case try-except).

1. What dataype is the object below ?

L = [1, 23, ‘hello’, 1]

Ans: List

1. In order to store values in terms of key and value we use what core datatype.

Ans: dictionary

1. What is answer of this expression, 22 % 3 is?

Ans: 1

1. You can perform mathematical operation on String?

Ans: False

1. What is the output of this expression, 3\*1\*\*3?

Ans: 3 because first exponential operation will occur that results into 1 and then multiplication will occur so final output is 3.

1. Differentiate between list and tuple with example

Ans: List is mutable data type means once you created you can edit that in future whenever you want. If you want to add or change the values from the list you can do it because its mutable but Tuple is immutable data type means once you created you cannot change it or modify its value using the index or any other way.

1. How to access last element of list?

Ans: To access last element we can use the last index [-1] like this because it starts indexing -1 from last. So easily using that we can access the last element.

1. What Does the Index Out of Range Error Mean?

Ans: It means the range you’ve provided is not enough and gone out of range means iteration inside function going out of range so we need to handle that exception.

1. How to Convert A List To A String?

Ans: To convert a list into a string we can use join method

Ex. List = [1,2,3,4]

‘ ‘.join(str(i) for i in List) this statement convert list into string.

1. How to Sort a List in Python?

Ans: To sort a list in python there are two inbuilt methods are available

1)Sorted-this function will sort the list and returns a sorted list so original remains unchanged.

2)Sort-this method will sort the list in-place means it will not create the new list but modify or sort the original list itself.

1. Write a program to create dictionary, store values in it then access all the values stored in dictionary and store those values into list.

Ans: see the program in outside of this file named dict\_list.py

1. Write a program to create simple calculator.

Ans: see the program in outside of this file named calculator.py

17 a =10

b = 20

Is there any difference between (a is b) and (a ==b)?

Ans: Yes, there is a difference between is and == operator. == checks whether both the variable values are same or not whereas ‘is’ checks for the memory location whether they both points to the same object or not.