# Python Code -----------------------

# ---------------------------Dictonary and sets--------------------------------------

1. """info = {"Key": "value",

"name": "Shouvik",

"learning": "Coding",

"marks": 96.5,

"subject ": ["Python","C","java"], #list value

"topics": ("dict","set") #tuple

}

print(info)

"""

1. """info = {"Key": "value",

"name": "Shouvik",

"learning": "Coding",

"marks": 96.5,

"subject": ["Python","C","java"], #list value

"topics": ("dict","set") #tuple

}

print(info["name"])

print(info["marks"])

print(info["subject"])

"""

1. """info = {"Key": "value",

"name": "Shouvik",

"learning": "Coding",

"marks": 96.5,

"subject": ["Python","C","java"], #list value

"topics": ("dict","set") #tuple

}

info["name"] = "Shouvik Naskar"

print(info)

"""

"""

#create a null dictionary and add new keys-------------------------------

1. info = {"Key": "value",

"name": "Shouvik",

"learning": "Coding",

"marks": 96.5,

"subject": ["Python","C","java"], #list value

"topics": ("dict","set") #tuple

}

null\_dict = {}

print(null\_dict)

"""

"""

#create a new key with null dictionary.-----------------------------------

info = {"Key": "value",

"name": "Shouvik",

"learning": "Coding",

"marks": 96.5,

"subject": ["Python","C","java"], #list value

"topics": ("dict","set") #tuple

}

null\_dict = {}

null\_dict["name"]= "Shouvek Naskar"

print(null\_dict)

"""

"""

#create dictionary and add new keys -----------------------------------

info = {"Key": "value",

"name": "Shouvik",

"learning": "Coding",

"marks": 96.5,

"subject": ["Python","C","java"], #list value

"topics": ("dict","set") #tuple

}

info["name"] = "Shouvik Naskar"

info["surname"] = "Naskar"

info["marks"]= 96.8

print(info)

"""

#Nesting code----------------------------

"""student = {

"name" : "Shouvik Naksar",

"subject" : {

"math":98,

"phy":96,

"chem":95

}

}

print(student["subject"])

"""

"""

# for particuler data found-----------------------------------------------------------------------

student = {

"name" : "Shouvik Naksar",

"subject" : {

"math":98,

"phy":96,

"chem":95

}

}

print(student["subject"]["math"])

"""

"""#for all keys------------------------------------------------------------------------------------

student = {

"name" : "Shouvik Naksar",

"subject" : {

"math":98,

"phy":96,

"chem":95

}

}

print(student.keys())

"""

"""

#type casting in dictionary-------------------------------------------------------

student = {

"name" : "Shouvik Naksar",

"subject" : {

"math":98,

"phy":96,

"chem":95

}

}

float()

print(list(student.keys()))

"""

"""

#retun values

student = {

"name" : "Shouvik Naksar",

"subject" : {

"math":98,

"phy":96,

"chem":95

}

}

print(student.values())

print(list(student.values()))

print(student.items())

print(student["name"])

print(student.get("name"))

print(student["name2"]) #if we write name2,output will be error.

print(student.get("name2")) #if we write name2, output will be None.

"""

"""

student = {

"name" : "Shouvik Naksar",

"subject" : {

"math":98,

"phy":96,

"chem":95

}

}

new\_dict = {"city":"kolkata"}

student.update(new\_dict)

print(student)

"""

"""

student = {"name" : "Shouvik Naskar",

"subject" :{

"phy":98,

"math":96,

"chem":94

}

}

print("BEFOR")

print(student("name2")) #error

print("After")

"""

"""student = {"name" : "Shouvik Naskar",

"subject" :{

"phy":98,

"math":96,

"chem":94

}

}

#student.update("City": "Kolkata")

new\_dict = {"city": "kolkata"}

student.update(new\_dict)

print(student)

"""

#SET--------------

"""collection = {1,2,3,4}

print(collection)

print(type(collection))

collection = {1,2,3,4}

print(collection)

print(len(collection))

"""

"""collection = {1,2,2,"to","to","shoo",3,4}

print(collection)

print(type(collection))

print(len(collection)) #total number of items

"""

"""

collection = set()

print(type(collection)) #for empty dictionary

"""

"""collection = set()

collection.add(1) # add() in sets

collection.add(2)

collection.add(2)

print(collection)

print(type(collection))

"""

"""collection = set()

collection.add(1)

collection.add(2)

collection.add(2)

collection.remove(1) # values removes from sets

print(collection)

print(type(collection))

"""

"""collection = set()

collection.add(1)

collection.add(2)

collection.add("shouvik naskar")

collection.add((1,2,3)) #tuple value

collection.add([1,2,3]) #list value or found error

collection.remove(1) # values removes from sets

print(collection)

print(type(collection))

"""

""" collection = set()

collection.add(1)

collection.add(2)

collection.add("shouvik naskar")

collection.add((1,2,3)) #tuple value

collection.clear() #

print(collection)

print(type(collection))

"""

"""

collection = {"hello","shouvik","naskar"}

print(collection.pop())

"""

"""

set1= {1,2,3}

set2= {3,4,5}

print(set1.union(set2)) #{1,2,3,4} only unique value return in new sets

"""

"""set1= {1,2,3}

set2= {3,4,5}

print(set1.intersection(set2)) #{3,} only common value return in new sets

"""

"""

dictionary = {

"cat": "a small animal",

"table": ["a piece of furniture", " list of facts & figures"]

}

print(dictionary)

"""

"""subject = {"python","java","C++"," python", "javascript" ,"java", "pyton", "java", "C++", "C"}

print(len(subject))

"""

"""marks = {}

x= int(input("enter Phy :"))

marks.update({"phy":x})

x= int(input("enter math :"))

marks.update({"math":x})

x= int(input("enter chem :"))

marks.update({"chem":x})

print(marks)

"""

"""values = {9, 9.0}

print(values)

""" #OR

"""

values ={

("float",9.0),

("int",9)

}

print(values)

"""