

# Assignment 3

Date \_\_\_\_\_

Page \_\_\_\_\_

- 1) Reverse the following tuple.  
aTup = (10, 20, 30, 40, 50)

Ans:

```
aTup = (10, 20, 30, 40, 50)
aTup = aTup[::-1]
print(aTup)
```

- 2) Write a Python program to create a list of tuple with the first element as the number and second element as the square of the number.

Ans:

```
Obj = [(1, 2), (3, 4), (5, 9), (7, 16)]
print(Obj)
```

- 3) Write a Python program to create a tuple with numbers and print one item.

Ans:

```
Obj = (1, 2, 3, 4)
print(Obj[0])
```

- 4) Write a Python program to unpack a tuple in several variables.

Ans:

```
stu_bio = ("Pranil", 41917, "SYBCA", "3 Years")
stu_name = stu_bio[0]
stu_roll_no = stu_bio[1]
stu_class = stu_bio[2]
stu_course_time = stu_bio[3]
```

- 5) Write a Python program to add an item in a tuple.



10) Write a Python program to find the repeated items of a tuple:

```
Tuple = (1, 2, 4, 4, 2, 0, 8)
list = []
```

```
for i in Tuple:
```

```
    if Tuple.count(i) > 1 & i not in list:
        list.append(i)
```

```
print(list)
```

11) Write a Python program to check whether an element exists within a tuple.

```
Tuple = (1, 2, 3, 4, 5)
```

```
element = input("Enter the element:")
```

```
if
```

```
    if Tuple.count(element) > 0:
```

```
        print("Yes it's present")
```

```
    else:
```

```
        print("No it's Not present")
```

```
aTup = (1)
```

```
aTup = aTup + (2, 3)
```

```
print(aTup)
```

6) Copy element 44 of ss from the following tuple into a new tuple.

```
tuple1 = (11, 22, 33, 44, 55, 66)
```

```
tuple1 = (11, 22, 33, 44, 55, 66)
```

```
newtuple = tuple1[3:5]
```

```
print(newtuple)
```

Ans

7) Write a Python program to convert a tuple to a string.

```
tuple = ('a', 'b', 'c', 'd') - ("abcd", "Me", "You")
```

```
str = ''.join(tuple)
```

```
print(str)
```

Ans:-

8) Sort the tuple

```
Tuple = (2, 4, 6, 1, 4, 7, 8, 2, 7)
```

```
Tuple = (2, 4, 6, 1, 4, 7, 8, 2, 7)
```

```
Tuple = sorted(Tuple)
```

```
print(Tuple)
```

Ans:-

9) Write a Python program to get the 5th element from front of 5th element from last of a tuple.

```
Tuple = (1, 2, 3, 4, 5, 6, 7)
```

```
print(Tuple[4])
```

```
print(Tuple[-5])
```

2) What are application of void data type in Ans:-



## Assignment 4

① What is the output of following program:

```
sets = {1, 2, 3, 4, 5}
print(sets)
1, 2, 3, 4, 5
```

② WPP to remove and return an arbitrary set element. Raise Key Error if the set is empty.

Ans:-

③ WPP to do iteration over sets.

```
set = {1, 2, 3, 4, 5}
for i in set:
    print(i)
```

④ WPP to add and remove operation in set.

Ans:-

```
set = {1, 2, 3}
set.add(3)
set.remove(1)
print(set)
```

⑤ Write a Python program to accept the strings which contains all vowels.

Ans:-

```
str = input("Enter a string")
```

```
if str.find("a") != -1 and str.find("e") != -1 and
str.find("i") != -1 and str.find("o") != -1 and
str.find("u") != -1:
    print("All vowel present")
else:
```

```
    print("Not All vowel present")
str = ""
```

⑥ Write PP to create a union of sets.

Ans:-

```
set1 = {1, 2, 3}
set2 = {2, 3, 4}
set3 = set1 | set2
print(set3)
```

⑦ WPP to create an intersection of sets.

Ans:-

```
set1 = {1, 2, 3}
set2 = {2, 3, 4}
set3 = set1 & set2
print(set3)
```

⑧ WPP to find maximum and the minimum value in a set.

Ans:-

```
set = {"A", "E", "O", "U", "I"}
print(max(set))
print(min(set))
```

② What are application of void data type?

Ans:-



# Assignment No: 3

Page No.   
 Date

Q. What are application of void data type  
Ans:

```
set2 = set.copy()
print(set2)
```

Date   
 Page

Q. WPP to create set difference of a Symmetric difference.

Ans:-

```
set1 = {1, 2, 3, 4}
set2 = {3, 4, 5, 6}
# difference for set1 in set2
set3 = set1 - set2
print(set3)
# 1 - for set1 in set2
set4 = set1 ^ set2
print(set4)
```

Q. WPP to find the length of a set.

Ans:-

```
set1 = {1, 2, 3}
print(len(set1))
```

Q. WPP to perform different set operations.

Ans:-

```
set1 = {1, 2, 3, 4, 5}
set2 = {4, 5, 6, 7, 8}
```

```
print(set1 | set2)
print(set1 & set2)
print(set1 - set2)
print(set1 ^ set2)
print(set1.issubset(set2))
print(set2.issuperset(set1))
```

Q. WPP to create a shallow copy of sets.

Ans:-

```
set = {1, 2, 3}
```