

## Experiment No.11

**Aim:** Write a function which takes a tuple as a parameter and returns a new tuple as the output, where every other element of the input tuple is copied, starting from the first one.

### Program A:

```
workout = {"Upper Chest": {"Bench Press": "3 sets", "Dumbbell Press": "2 sets"},
           "Lower Chest": {"Bench Press": "3 sets", "Dumbbell Press": "2 sets"}}

print("Way 1")
for workout_name, workout_details in workout.items():
    print("", workout_name)
    print("", workout_details)

print("Way 2")
for workout_name, workout_details in workout.items():
    print("Workout: ", workout_name)
    print("First Variation is:\t", workout_details["Bench Press"])
    print("Second Variation is:\t", workout_details["Dumbbell Press"])
```

### Output:

```
ManishCollegeExp exp11a.py
Project
exp10d.py
exp10e.py
exp11a.py
exp11b.py
exp11c.py
Run: exp11a
C:\Users\manis\AppData\Local\Programs\Python\Python311\python.exe C:\Users\manis\PycharmProjects\ManishCollegeExp\exp11a.py
Way 1
Upper Chest
{'Bench Press': '3 sets', 'Dumbbell Press': '2 sets'}
Lower Chest
{'Bench Press': '3 sets', 'Dumbbell Press': '2 sets'}
Way 2
Workout: Upper Chest
First Variation is: 3 sets
Second Variation is: 2 sets
Workout: Lower Chest
First Variation is: 3 sets
Second Variation is: 2 sets
Process finished with exit code 0
```

**Program B:**

```
def orangecap(d):
    total = {}
    for k in d.keys():
        for n in d[k].keys():
            if n in total.keys():
                total[n] = total[n] + d[k][n]
            else:
                total[n] = d[k][n]
    print('Total Run Scores By Each Player in 2 Tests: ')
    print(total)

    print('Player with Highest Score')
    maxtotal = -1
    for n in total.keys():
        if total[n]>maxtotal:
            maxname = n
            maxtotal = total[n]
    return (maxname, maxtotal)

d=orangecap({'Test 1':{'MS Dhoni': 10,'Virat Kohli':300},
'Test 2':{'MS Dhoni':1,'Virat Kohli':150,'Rohit Sharma':99}})
print(d)
```

**Output:**

The screenshot shows an IDE window titled 'ManishCollegeExp' with a file named 'exp11b.py'. The code editor shows the function 'orangecap' and its call. The Run console shows the following output:

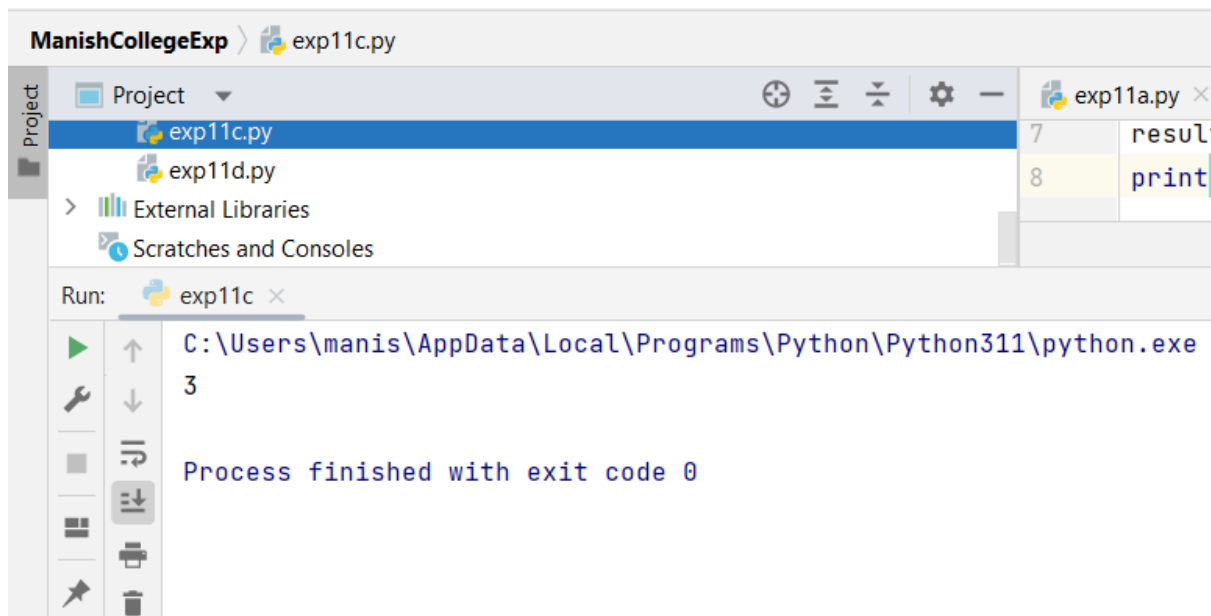
```

C:\Users\manis\AppData\Local\Programs\Python\Python311\python.exe C:\Users\manis\Py
Total Run Scores By Each Player in 2 Tests:
{'MS Dhoni': 11, 'Virat Kohli': 450, 'Rohit Sharma': 99}
Player with Highest Score
('Virat Kohli', 450)
Process finished with exit code 0

```

**Program C: Exercise:**

```
def how_many(animals):
    count = 0
    for i in animals:
        count += len(animals[i])
    return count
animals = {'L':['Lion'], 'D':['Donkey'], 'E':['Elephant']}
result = how_many(animals)
print(result)
```

**Output:****Program D:**

```
def how_many(workout):
    count = 0
    for i in workout:
        count += len(workout[i])
    return count
workout = {
    'Monday': ['Chest'], 'Tuesday': ['Tricep+Leg'], 'Wednesday': ['Bac
k'], 'Thursday': ['Bicep'], 'Friday': ['Shoulder'], 'Saturday': ['Le
gs']}
print("List of Workout Split for Beginners is as follows:
\n",workout)
result = how_many(workout)
print("Total Days of Workout Split in a week for Beginners:
",result)
```

## Output:

```

def how_many(workout):
    count = 0
    how_many()

```

Run: exp11d (1) ×

C:\Users\manis\AppData\Local\Programs\Python\Python311\python.exe C:\Users\manis\PycharmProjects\ManishCollegeExp\exp11d.py

List of Workout Split for Beginners is as follows:

```
{'Monday': ['Chest'], 'Tuesday': ['Tricep+Leg'], 'Wednesday': ['Back'], 'Thursday': ['Bicep'], 'Friday': ['Shoulder'], 'Saturday': ['Legs']}
```

Total Days of Workout Split in a week for Beginners: 6

Process finished with exit code 0

Practical Performance (4)	Writeup & Oral (4)	Attendance (2)	Total (10)