

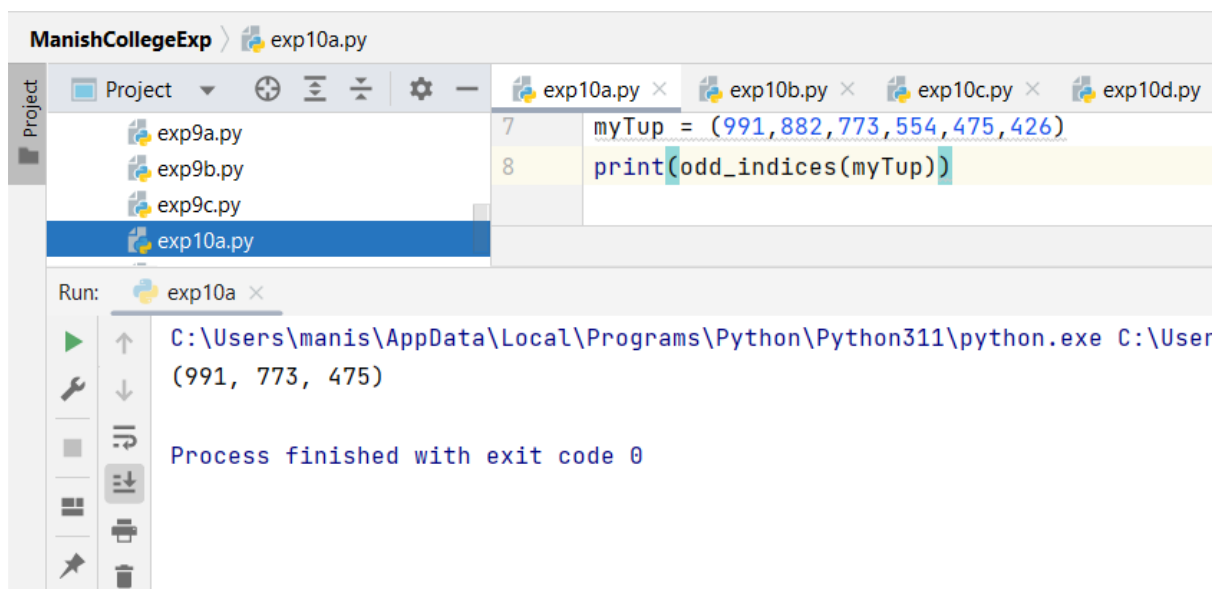
Experiment No.10

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:

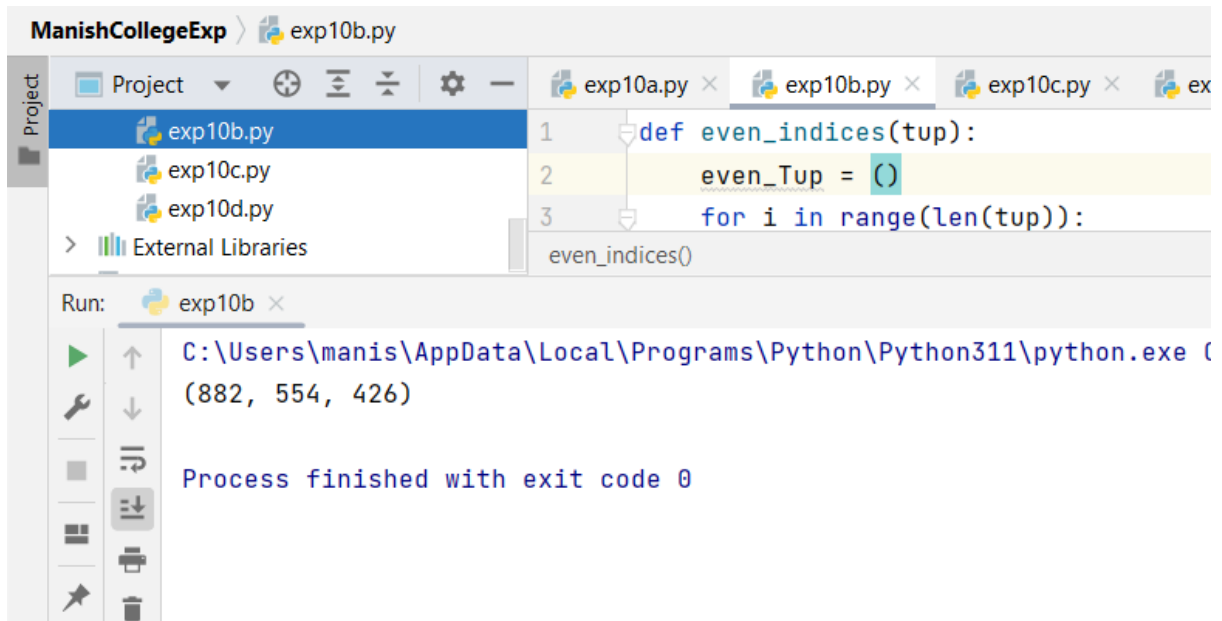
```
def odd_indices(tup):
    Odd_Tup = ()
    for i in range(len(tup)):
        if i % 2 != 1:
            Odd_Tup += (tup[i],)
    return Odd_Tup
myTup = (991, 882, 773, 554, 475, 426)
print(odd_indices(myTup))
```

Output:



Program B:

```
def even_indices(tup):
    even_Tup = ()
    for i in range(len(tup)):
        if i % 2 != 0:
            even_Tup += (tup[i],)
    return even_Tup
myTup = (991, 882, 773, 554, 475, 426)
print(even_indices(myTup))
```

Output:


```

ManishCollegeExp > exp10b.py
Project
  exp10b.py
  exp10c.py
  exp10d.py
  External Libraries
Run: exp10b x
C:\Users\manis\AppData\Local\Programs\Python\Python311\python.exe (
(882, 554, 426)
Process finished with exit code 0

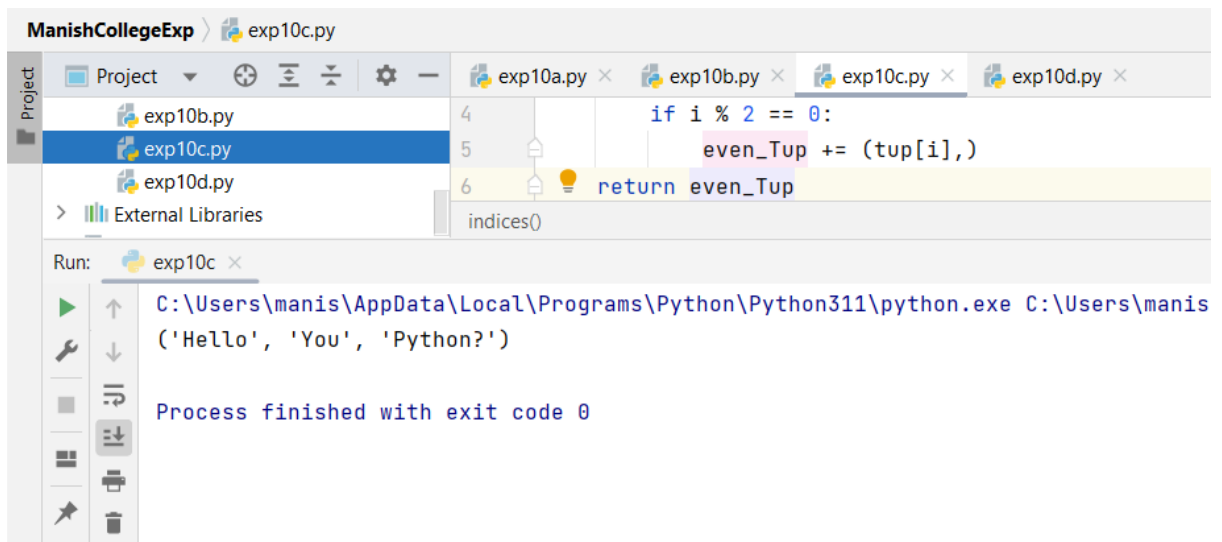
```

Program C: Exercise:

```

def indices(tup):
    even_Tup = ()
    for i in range(len(tup)):
        if i % 2 == 0:
            even_Tup += (tup[i],)
    return even_Tup
myTup = ('Hello', 'Are', 'You', 'Loving', 'Python?')
print(indices(myTup))

```

Output:


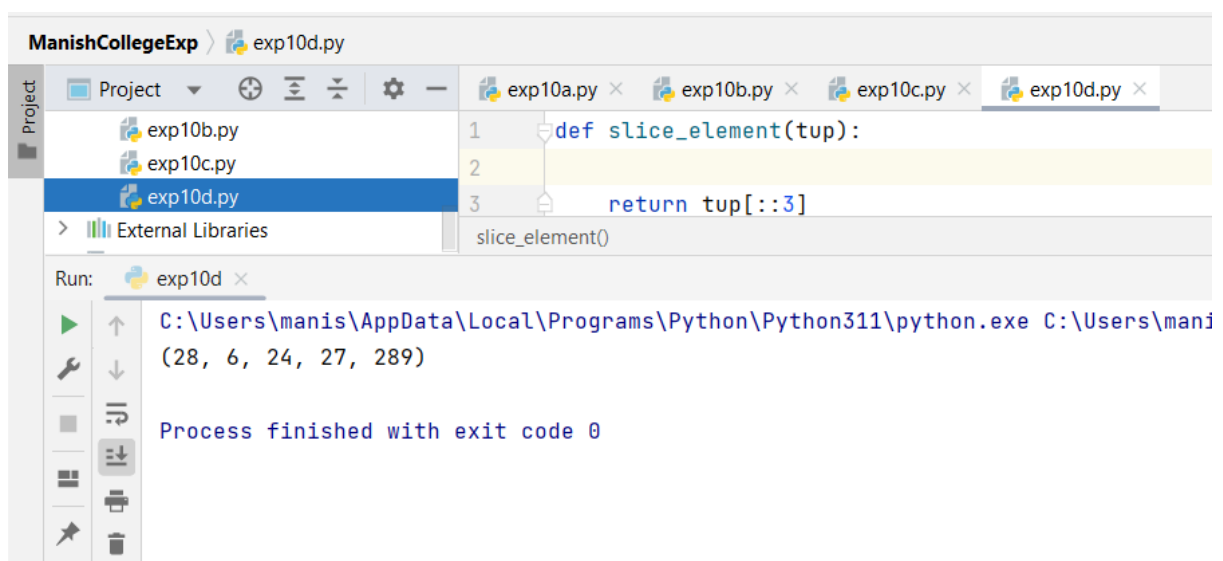
```

ManishCollegeExp > exp10c.py
Project
  exp10b.py
  exp10c.py
  exp10d.py
  External Libraries
Run: exp10c x
C:\Users\manis\AppData\Local\Programs\Python\Python311\python.exe C:\Users\manis
('Hello', 'You', 'Python?')
Process finished with exit code 0

```

Program D: Accessing Values in Tuples using Splice Operation:

```
def slice_element(tup):  
    return tup[::3]  
  
input_tuple = (28,9,30,6,2,7,24,8,10,27,3,16,289)  
output_tuple = slice_element(input_tuple)  
print(output_tuple)
```

Output:**Program E: Concatenating Tuples:**

```
tuple1 = (28, 11, 2)  
tuple2 = ('Manish', 'Aaryan', 'Pranay')  
  
tuple3 = tuple1 + tuple2  
  
print(tuple3)
```

