

The image displays three sequential screenshots of the Visual Studio Code editor, each showing a different Python script for algorithm implementation and timing.

Top Screenshot: list_algos.py
The editor shows the file `list_algos.py` with the following code:

```
1 from timeit import timeit
2 # FOR LIST
3 # INSERTING ALGORITHM
4 i1 = '''def insert(lst, pos, data):
5     list_1 = lst[0:pos]
6     list_2 = lst[pos:len(lst)]
7     list_1 += [data]
8     return list_1 + list_2
9 insert([1, 2, 3, 4, 5], 1, 255)'''
10 i2 = '''l = [1, 2, 3, 4, 5]
11 l.insert(1, 255)'''
12 # print(f"FOR INSERTING ALGORITHM \nTime Taken for Own Implementation: {timeit(i1)}\nTime Taken for Built In
    Implementaion: {timeit(i2)}")

14 # DELETING ALGORITHM
15 d1 = '''def delete(lst, data):
16     for i in range(len(lst)):
17         if lst[i] == data:
18             list_1 = lst[0:i]
19             list_2 = lst[i+1:len(lst)]
20             return list_1 + list_2
21         else:
22             return None
23 delete([1, 2, 4, 5], 2)'''
24 d2 = '''l = [1, 2, 4, 5]
25 l.remove(2)'''
26 # print(f"FOR DELETING ALGORITHM \nTime Taken for Own Implementation: {timeit(d1)}\nTime Taken for Built In
    Implementaion: {timeit(d2)}")
27
```

Middle Screenshot: list_algos.py
The editor shows the file `list_algos.py` with the following code:

```
28 # SEARCHING ALGORITHM
29 s1 = '''def search(lst, data):
30     for i in range(len(lst)):
31         if lst[i] == data:
32             return i
33     return None
34 search([1, 2, 4, 5], 2)'''
35 s2 = '''l = [1, 2, 4, 5]
36 l.index(2)'''
37 # print(f"FOR SEARCHING ALGORITHM \nTime Taken for Own Implementation: {timeit(s1)}\nTime Taken for Built In
    Implementaion: {timeit(s2)}")
38
```

Bottom Screenshot: tuple_algos.py
The editor shows the file `tuple_algos.py` with the following code:

```
1 from timeit import timeit
2 # INSERTING ALGORITHM
3 i1 = '''def insert(tup, pos, data):
4     tup_1 = tup[0:pos]
5     tup_2 = tup[pos:len(tup)]
6     tup_1 += data,
7     return tup_1 + tup_2
8 insert((1,2,3,4,5), 3, 255)'''
9 print(timeit(i1))
```

```
11 # DELETING ALGORITHM
12 d1 = '''def delete(tup, data):
13     for i in range(len(tup)):
14         if tup[i] == data:
15             tup_1 = tup[0:i]
16             tup_2 = tup[i+1:len(tup)]
17             return tup_1 + tup_2
18 delete((1, 2, 3, 4), 4)'''
19 # print(timeit(d1))

21 # SEARCHING ALGORITHM
22 s1 = '''def search(tup, data):
23     for i in range(len(tup)):
24         if tup[i] == data:
25             return i
26     return None
27 search((1, 2, 3, 4), 3)'''
28 print(timeit(s1))
29 s2 = '''T = (1, 2, 3, 5)
30 T.index(5)'''
31 print(timeit(s2))
```