

Assignment on Lists Tuple & Dictionary

```
1) inp = ["This", "list", "contains", "seven", "strings", "in", "total."]
out = []
for i in inp:
    out.append(i[0])
print(out)
```

Output :

```
["T","l","c","s","s","i","t"]
```

```
2) inp = "In computer science, a data structure is a data organization, management, and
storage format that enables efficient access and modification"
inp = inp.split()
out = []
a = input("Enter any alphabet : ")
for i in inp:
    if a == i[0] or a.upper() == i[0]:
        out.append(i)
print(out)
```

Output :

```
Enter any alphabet : d
["data","data"]
```

```
3) tup = (2,4,6,3,5,6,8,1,3)
sl = tup[3:5]
print(sl)
sl = tup[:5]
print(sl)
sl = tup[3:]
print(sl)
sl = tup[:]
print(sl)
sl = tup[-8:-4]
print(sl)
tup = ("HELLO WORLD")
sl = tup[2:9:2]
print(sl)
sl = tup[::4]
print(sl)
sl = tup[9:2:-4]
print(sl)
```

Output :

```
(3,5)
(2,4,6,3,5)
(3,5,6,8,1,3)
(2,4,6,3,5,6,8,1,3)
(4,6,3)
("LOWR")
("LO")
("W")
```

```
4) lst=[1,2,7,3,(6,5),4]
   counter = 0
   for i in lst:
       if isinstance(i, tuple):
           break
       counter += 1
   print("NUMBER OF ELEMENTS :\n",counter)
```

Output :

```
NUMBER OF ELEMENTS : 4
```

```
5) employee = {'Rabi':{'age': 27,'sex': 'Male','salary':10000},'Rani': {'age': 22, 'sex':
'Female','salary':20000},'Kamala': {'age': 25, 'sex': 'Female','salary':50000}}
   for k in employee:
       print("name=",k,'\n')
       print("info=",employee[k],"\n")
```

Output :

```
Rabi
info={'age': 27,'sex': 'Male','salary':10000}
Rani
info={'age': 22, 'sex': 'Female','salary':20000}
Kamala
info={'age': 25, 'sex': 'Female','salary':50000}
```

```
6) bill={"potato":10,"mango":20,"tomato":30,"apple":40,"guava":50,"onion":30}
   x=input("Enter items=")
   a=0
   lst=x.split(" ")
   for key in bill:
       for item in lst:
           if key==item:
               a=a+bill[key]
   print("Total bill=",a)
```

Output :

Enter items=potato onion tomato apple

Total bill=110

7) birthdays = {2:15.02.01,5:20.04.02,3:5.5.03, 4:25.11.02,1:17.01.00}

```
for i in sorted(birthdays.items()):
```

```
    print(i)
```

```
    name = input("Enter the name of the person: ")
```

```
    if name in birthdays.keys():
```

```
        print("Birthday is on: ", birthdays[name])
```

```
    else:
```

```
        print("Birthday of the person not found!")
```

```
        birthdays[name] = input("Enter the birthday: ")
```

```
        print("Now the birthdays dictionary is- ")
```

```
        for i in sorted(birthdays.items()):
```

```
            print(i)
```

Output :

{1:17.01.00,2:15.02.01,3:5.5.03,4:25.11.02,5:20.04.02}

Enter the name of the person : 6

Birthday of the person not found!

Enter the birthday : 14.09.01

Now the birthday dictionary is : {1:17.01.00, 2:15.02.01, 3:5.5.03, 4:25.11.02, 5:20.04.02, 6:14.09.01}