

Create a set which accept 5 names at run time. Display set elements. Write set comprehension to display above set elements in uppercase letters.

Input :-

```
user_name = set()
for i in range(5):
    user_name.add(input("Enter the name: "))
print("The set is: ",user_name)

upper_name = {x.upper() for x in user_name}
print(upper_name)
```

Out put :-

Enter the name: molay

Enter the name: milind

Enter the name: nishood

Enter the name: aditya

Enter the name: athrva

The set is: {'milind', 'aditya', 'molay', 'nishood', 'athrva'}

{'MILIND', 'ATHRVA', 'MOLAY', 'ADITYA', 'NISHOOD'}

exp-5a.py / ...

```
1 user_name = set()
2
3 for i in range(5):
4     user_name.add(input("Enter the name: "))
5 print("The set is: ",user_name)
6
7 upper_name = {x.upper() for x in user_name}
8 print(upper_name)
```

```
$ python -u "c:\Users\Admin\Desktop\python\exp-5a.py"
```

- Enter the name: molay
 - Enter the name: milind
 - Enter the name: nishood
 - Enter the name: aditya
 - Enter the name: athrava
- The set is: {'milind', 'nishood', 'molay', 'aditya', 'athrava'}
{'ADITYA', 'NISHOOD', 'ATHRAVA', 'MOLAY', 'MILIND'}

```
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```
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```

Develop an application to demonstrate nested tuple.

Input :-

```
# Define a nested tuple

college = (

    ("Department of Computer Science", ("Hitler", "Obama", "Jack")),

    ("Department of Mathematics", ("Molay", "Aditya", "Nishood")),

    ("Department of Physics", ("Jlabi", "Ladoo", "Barfi"))

)

# Display the nested tuple information

for department in college:

    print("Department: " + department[0])

    print("Students:")

    for student in department[1]:

        print(" - " + student)

    print()
```

Out put :-

Department: Department of Computer Science

Students:

- Hitler
- Obama
- Jack

Department: Department of Mathematics

Students:

- Molay
- Aditya
- Nishood

Department: Department of Physics

Students:

- Jlabi
- Ladoo
- Barfi

```

exp-5b.py > ...
1  # Define a nested tuple
2  college = (
3      ("Department of Computer Science", ("Hitler", "Obama", "Jack")),
4      ("Department of Mathematics", ("Molay", "Aditya", "Nishood")),
5      ("Department of Physics", ("Jlabi", "Ladoo", "Barfi"))
6  )
7
8  # Display the nested tuple information
9  for department in college:
10     print("Department: " + department[0])
11     print("Students:")
12     for student in department[1]:
13         print(" - " + student)
14     print()
15

```

```

• $ python -u "c:\Users\Admin\Desktop\python\exp-5b.py"
Department: Department of Computer Science
Students:
- Hitler
- Obama
- Jack

Department: Department of Mathematics
Students:
- Molay
- Aditya
- Nishood

Department: Department of Physics
Students:
- Jlabi
- Ladoo
- Barfi

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```