1940223_2022-01-04 (revision)

March 28, 2022

AIM: Revision on Python functions and programming

1 Today's date

[7]:
```
from datetime import date
print(date.today())
```

```
2022-01-04
```

2 Input first & last name, then print with space in between

[9]:
```
firstName = input("Input first name: ")
lastName = input("Input last name: ")
print(firstName, lastName)
```

```
Input first name: Ooga
Input last name: Booga
Ooga Booga
```

3 Input list & allow element addition & removal

[4]:
```
myList = []
# Input list...
while True:
    myList.append(input("Add element: "))
    if input("Continue? (y/n) ") == "n":
        break

# Loop...
print("==================")
print("Add and remove loop")
while True:
    print("------------")
    print("Enter 1 to add")
    print("Enter 2 to remove")
    print("Enter 3 to view")
```

```
    print("Enter x to exit")
    x = input(">> ")
    if x == "1":
        myList.append(input("Add element: "))
        print(myList)
    elif x == "2":
        x = input("Remove element: ")
        try:
            myList.remove(x)
            print(myList)
        except:
            print(x, "does is not in the list.")
    elif x == "3":
        print(myList)
    elif x == "x":
        break
```

```
Add element: 12
Continue? (y/n) y
Add element: 43
Continue? (y/n) y
Add element: 43
Continue? (y/n) y
Add element: 74
Continue? (y/n) n
==================
Add and remove loop
------------
Enter 1 to add
Enter 2 to remove
Enter 3 to view
Enter x to exit
>> 1
Add element: 1000
['12', '43', '43', '74', '1000']
------------
Enter 1 to add
Enter 2 to remove
Enter 3 to view
Enter x to exit
>> 2
Remove element: 43
['12', '43', '74', '1000']
------------
Enter 1 to add
Enter 2 to remove
Enter 3 to view
```

```
Enter x to exit
>> 3
['12', '43', '74', '1000']
------------
Enter 1 to add
Enter 2 to remove
Enter 3 to view
Enter x to exit
>> x
```

4 Input number & check if odd or even

[5]:
```
try:
    if int(input("Enter number: ")) % 2 == 0: print("Even")
    else: print("Odd")
except:
    print("Invalid integer!")
```

```
Enter number: 32
Even
```

5 Input string & check for upper & lower case

[12]:
```
myString = input("Input string: ")
upper, lower = 0, 0
for c in myString:
    if not c.isalpha(): continue
    if c.isupper(): upper = upper + 1
    else: lower = lower + 1

print("Number of uppercase letters:", upper)
print("Number of lowercase letters:", lower)
```

```
Input string: Debs SAHA
Number of uppercase letters: 5
Number of lowercase letters: 3
```