Module 3 : Python Assignment

## In [8]:

```
Consider a list (list = []). You can perform the following commands:
insert i e: Insert integer at position .
print: Print the list.
remove e: Delete the first occurrence of integer .
append e: Insert integer at the end of the list.
sort: Sort the list.
pop: Pop the last element from the list.
reverse: Reverse the list.
Initialize your list and read in the value of followed by lines of commands where
0.00
def print list(list,operation):
    print(operation)
    print(list)
list = [1,3,1.5]
print list(list,"Initial list")
list.insert(1,2)
print list(list,"Insert 2 at index 1")
list.remove(1.5)
print list(list, "Remove 1st occurence of 1.5")
list.append(1.5)
print list(list, "Append 1.5")
list.sort()
print list(list, "Sort the list")
list.pop()
print list(list, "Pop from list")
list.reverse()
print list(list, "Reverse list")
Initial list
```

```
Initial list
[1, 3, 1.5]
Insert 2 at index 1
[1, 2, 3, 1.5]
Remove 1st occurence of 1.5
[1, 2, 3]
Append 1.5
[1, 2, 3, 1.5]
Sort the list
[1, 1.5, 2, 3]
Pop from list
[1, 1.5, 2]
Reverse list
[2, 1.5, 1]
```

## In [9]:

```
#Write a Calculator program in Python?
def add(P, Q):
  # This function is used for adding two numbers
   return P + 0
def subtract(P, Q):
   # This function is used for subtracting two numbers
   return P - Q
def multiply(P, Q):
   # This function is used for multiplying two numbers
   return P * 0
def divide(P, Q):
   # This function is used for dividing two numbers
   return P / Q
# Now we will take inputs from the user
print ("Please select the operation.")
print ("a. Add")
print ("b. Subtract")
print ("c. Multiply")
print ("d. Divide")
choice = input("Please enter choice (a/ b/ c/ d): ")
num 1 = int (input ("Please enter the first number: "))
num 2 = int (input ("Please enter the second number: "))
if choice == 'a':
   print (num 1, " + ", num 2, " = ", add(num 1, num 2))
elif choice == 'b':
   print (num 1, " - ", num 2, " = ", subtract(num 1, num 2))
elif choice == 'c':
   print (num1, " * ", num2, " = ", multiply(num1, num2))
elif choice == 'd':
   print (num 1, " / ", num 2, " = ", divide(num 1, num 2))
else:
   print ("This is an invalid input")
Please select the operation.
a. Add
b. Subtract
```

```
a. Add
b. Subtract
c. Multiply
d. Divide
Please enter choice (a/ b/ c/ d): a
Please enter the first number: 12
Please enter the second number: 13
```

12 + 13 = 25

## In [11]:

```
#Write a prografrom audioop import reverse

firstname="MARYADA "
lastname="LODHA"
name=firstname+lastname
print(name)
print(name[::-1])
print(name[0:7])
```

MARYADA LODHA AHDOL ADAYRAM MARYADA

Why is Python a popular programming language?

Due to its ease of learning and usage, Python codes can easily be written and executed much faster than other programming languages. One of the main reasons why Python's popularity has exponentially grown is due to its simplicity in syntax so that it could be easy to read and developed by amateur professionals as well.

What are the other Frameworks that can be used with python?
Django
Pyramid
Flask
CherryPy
ETC

Full form of WSGI?
Web Server Gateway Interface