```
from flask import Flask app = Flask(__name__)
```

@app.route('/')
def hello_world():
 return "Hello all"

```
if __name__ == '__main__':
    app.run()
```

```
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> a=10
>>> print (id(a))
2134276663888
>>> b=73.3
>>> print(type(b))
<class 'float'>
>>> #multiple variable
>>> a,b,c=30,10,20
>>> print(a)
30
>>> print(b)
10
>>> print(c)
20
>>> # delete values
>>> del a
>>> prin(a)
Traceback (most recent call last):
```

File "<pyshell#11>", line 1, in <module>

NameError: name 'prin' is not defined

prin(a)

>>>

```
Calculator Program in Python
def add(x, y):
  return x + y
def subtract(x, y):
  return x - y
def multiply(x, y):
  return x * y
def divide(x, y):
  return x / y
print("Select operation.")
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")
choice = input("Enter choice(1/2/3/4): ")
if choice in ('1', '2', '3', '4'):
    num1 = float(input("Enter first number: "))
    num2 = float(input("Enter second number: "))
if choice == '1':
      print(num1, "+", num2, "=", add(num1, num2))
elif choice == '2':
      print(num1, "-", num2, "=", subtract(num1, num2))
elif choice == '3':
      print(num1, "*", num2, "=", multiply(num1, num2))
```

```
elif choice == '4':
      print(num1, "/", num2, "=", divide(num1, num2))
else:
      print("Invalid Input")
Concatenation in python
str1="Hello"
str2="World"
print ("String 1:",str1)
print ("String 2:",str2)
str=str1+str2
print("Concatenated string is ",str)
Reverse a string in python
str = "IBM"
print ("The original string is ",str)
reverse_String = ""
count = len(str)
while count > 0:
  reverse_String += str[ count - 1]
  count = count - 1
print ("The reversed string is ",reverse_String)
Slice a string in python
String = 'IBM Cloud'
s1 = slice(3)
s2 = slice(-5,-1)
print(String[s1])
print(String[s2])
```

List operations in Python

```
if _name_ == '_main_':
  N = int(input())
  m=list()
  for i in range(N):
    method,*l=input().split()
    k=list(map(int,l))
    if len(k)==2:
     q=[k[0]]
     w=[k[1]]
    eliflen(k)==1:
     q=[k[0]]
    if method =='insert':
     m.insert(q[0],w[0])
    elif method == 'append':
     m.append(q[0])
    elif method == 'remove':
     m.remove(q[0])
    elif method =='print':
     print(m)
    elif method == 'reverse':
     m.reverse()
    elif method =='pop':
     m.pop()
    elif method == 'sort':
     m.sort()
for i in range (N):
  print(m[i])
```

Why is Python a popular programming language?
It uses a simplified syntax
with an emphasis on natural
language, for a much easier
learning curve for beginners.
And, because
Python is free to use and is
supported by an extremely large
ecosystem of
libraries and packages,
it's often the first-choice
language for new developers.
What are the other Frameworks that can be used with python?
There are many frameworks used with Python, some are
Bottle
Flask
Django
Web2py
AIOHTTP
CherryPy
Dash
Falcon
Growler
UvLoop
Pyramid
Sanic
CubicWeb
TurboGears
Hug
MorePath
Full form of WSGI

Web Server Gateway Interface