ASSIGNMENT 1

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MAX MARK	2 Marks

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':
```

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```
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]]
    elif len(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])
```

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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