ASSIGNMENT 1

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|--------------|-----------------|
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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