

Assignment 2

Assignment Date	19 September 2022
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Maximum Marks	2 marks

Module 3: Python Assignment

Question 1:

List function:

1. My list:

```
my_list = [1,2,3,4]
print (my_list)
```

2. Remove:

```
my_list = [1,2,3,4]
del my_list[1]
print(my_list)
```

[1, 3, 4]

3. Append:

```
my_list = [1,2,3,4]
my_list.append(5)
print(my_list)
```

[1, 2, 3, 4, 5]

4. Sort:

```
my_list = [4,2,1,3,6,5]
my_list.sort()
print(my_list)
```

[4, 2, 1, 3, 6, 5]

5. Pop:

```
my_list = [4,2,1,3,6,5]
my_list.pop(4)
print(my_list)
```

[4, 2, 1, 3, 5]

6. Reverse:

```
my_list = [1,2,3,4,5,6]
my_list.reverse()
print(my_list)
```

[1, 2, 3, 4, 5, 6]

Question 2:

Simple Calculator using python:

Code:

def add(P, Q):

return P + Q

def subtract(P, Q):

return P - Q

def multiply(P, Q):

return P * Q

```
def divide(P, Q):  
  
    return P / Q  
  
    print ("Please select the operation.")  
print ("1. Add")  
  
print ("2. Subtract")  
  
print ("3. Multiply")  
  
print ("4. Divide")  
  
  
choice = input("Please enter choice (1/ 2/ 3/ 4): ")  
  
num_1 = int (input ("Please enter the first number: "))  
num_2 = int (input ("Please enter the second number: "))    if  
choice == '1':  
  
    print (num_1, " + ", num_2, " = ", add(num_1, num_2))  
  
elif choice == '2':  
  
    print (num_1, " - ", num_2, " = ", subtract(num_1, num_2))  
  
elif choice == '3':  
  
    print (num1, " * ", num2, " = ", multiply(num1, num2))  
elif choice == '4':
```

```
print (num_1, " / ", num_2, " = ", divide(num_1, num_2))  
else:  
  
    print ("This is an invalid input")
```

output:

```
Please select the operation.  
1. Add  
2. Subtract  
3. Multiply  
4. Divide  
Please enter choice (1/ 2/ 3/ 4): 1  
Please enter the first number: 20  
Please enter the second number: 10  
20 + 10 = 30
```

Question 3:

Write a program to concatenate, reverse and slice a string

String Concatenate:

Code:

```
str1='Python '  
  
str2='Assignment'  
str3=str1+str2  
  
print(str3)
```

output:

```
str1='Python '  
str2='Assignment'  
str3=str1+str2  
print(str3)
```

Python Assignment

String Reverse:

Code:

```
def my_function(x):  
  
    return x[::-1]  
  
mytxt = my_function("Hello World")  
print(mytxt )
```

Output:

```
def my_function(x):  
    return x[::-1]  
  
mytxt = my_function("Hello World")  
  
print(mytxt )
```

The original string is: Hello World

The revered string is: dlroW olleH

String Slice:

String = 'education'

s1 = slice (4)

s2 = slice (1, 3, 5)

print(String[s1])

print(String[s2])

Output:

```
String = 'education'  
s1 = slice(4)  
s2 = slice(1, 3, 5)  
print(String[s1])  
print(String[s2])
```

Question 4:

Why is python a popular language?

- It uses a simplified syntax with an emphasis on natural language, for a much easier learning curve for beginners.
- It 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.

Question 5:

What are the other framework that can be used in python?

- Django
- Flask
- Bottle
- Grok
- Web2Py
- Pyramid.

Question 6:

Full Form of WSGI?

WSDI – Web Server Gateway Interface