

Assignment -2
Python Assignment

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

List function code:

my list

```
my_list = [9,8,7,6,1,2,3,4,5]
```

```
print("my list")
```

```
print(my_list)
```

ii) remove: (delete the first occurrence of integer)

```
my_list = [9,8,7,6,1,2,3,4,5]
```

```
del my_list[0]
```

```
print("delete the first occurrence of integer")
```

```
print(my_list)
```

iii)append: (insert a integer at end of the list)

```
my_list = [9,8,7,6,1,2,3,4,5]
```

```
my_list.append(4)
```

```
print("insert a integer at end of the list")
```

```
print(my_list)
```

IV) sort: (sort the list)

```
my_list = [9,8,7,6,1,2,3,4,5]
```

```
my_list.sort
```

```
print("sort the list")
```

```
print(my_list)
```

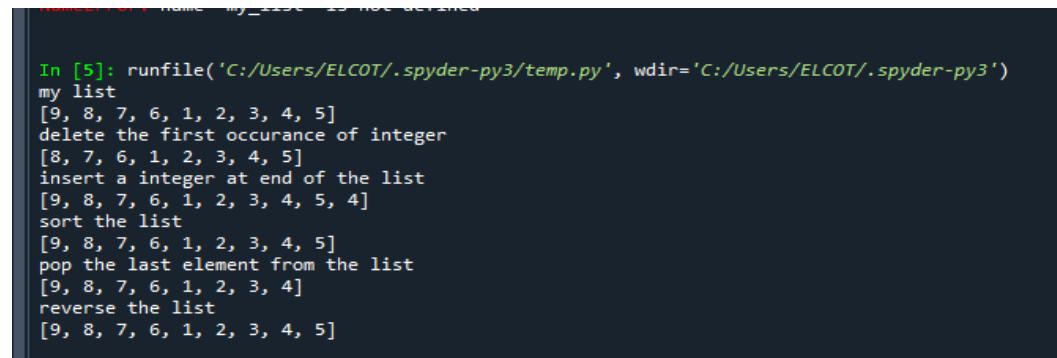
V) pop: (pop the last element from the list)

```
my_list = [9,8,7,6,1,2,3,4,5]
my_list.pop(8)
print("pop the last element from the list")
print(my_list)
```

VI) reverse: (reverse the list)

```
my_list = [9,8,7,6,1,2,3,4,5]
my_list.reverse
print("reverse the list")
print(my_list)
```

output:



```
In [5]: runfile('C:/Users/ELCOT/.spyder-py3/temp.py', wdir='C:/Users/ELCOT/.spyder-py3')
my list
[9, 8, 7, 6, 1, 2, 3, 4, 5]
delete the first occurrence of integer
[8, 7, 6, 1, 2, 3, 4, 5]
insert a integer at end of the list
[9, 8, 7, 6, 1, 2, 3, 4, 5, 4]
sort the list
[9, 8, 7, 6, 1, 2, 3, 4, 5]
pop the last element from the list
[9, 8, 7, 6, 1, 2, 3, 4]
reverse the list
[9, 8, 7, 6, 1, 2, 3, 4, 5]
```

Question-2:

Simple Calculator using python:

Code:

```
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")
```

```
while True:
```

```
    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))
```

output:

```
Restarting kernel...
runfile('C:/Users/ELCOT/.spyder-py3/temp.py', wdir='C:/Users/ELCOT/.spyder-py3')
Select operation.
1.Add
2.Subtract
3.Multiply
4.Divide

In [1]: Enter choice(1/2/3/4): 1
Enter first number: 35
Enter second number: 40
35.0 + 40.0 = 75.0
Enter choice(1/2/3/4): |
```

Question 3:

Write a program to concatenate, reverse and slice a string

String concatenate code:

```
str_1='string '  
str_2='function'  
str_3=str_1+str_2  
print(str_3)
```

output

```
In [1]:  
In [2]: runfile('C:/Users/ELCOT/.spyder-py3/temp.py', wdir='C:/Users/ELCOT/.spyder-py3')  
string function  
In [3]:
```

String reverse code:

```
str = "python_programming"  
print ("The original string is :",str)  
reverse_String = ""
```

```

count = len(str)

while count > 0:

    reverse_String += str[ count - 1 ] # save the value of str[count-1] in reverseString

    count = count - 1

print ("The reversed string using a while loop is :",reverse_String)

```

output:

```

In [8]: runfile('C:/Users/ELCOT/.spyder-py3/temp.py', wdir='C:/Users/ELCOT/.spyder-py3')
The original string is : python_programming
The reversed string using a while loop is : gnimmargorp_nohtyp

```

String slice code:

```

String = 'python'

s1 = slice(3)

s2 = slice(1, 5, 2)

print(String[s1])

print(String[s2])

```

output:

```

In [2]: runfile('C:/Users/saravanan/.spyder-py3/temp.py', wdir='C:/Users/saravanan/.spyder-py3')
pyt
yh

```

Question-4:

Why python is popular programming language?

Easy to learn, because of simplified syntax with an emphasis on natural language. Python is free to use and is supported by an extremely large ecosystem of libraries and packages

Question-5:

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

Flask, streamlit, django, cherryPy

Question-6

Full form of WSDI

Web Services Description Language

