Assignment -2
Python Programming

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Maximum Marks	2 Marks

Question-1:

Consider a list(list=[]). You can perform the following commands:

1) Insert i e: insert integer at position.
2) Print: print the list.
3) Remove e: delete the first occurrence of integer.
4) Append e: insert integer at the end of the list.
5) Sort: sort the list.
6) Pop: pop the last element from the list.
7) Reverse: reverse the list.

Initialize your list and read in the value of followed by lines of commands where each command will be of the types listed above. Iterate through each command in order and perform the corresponding operation on your list.

Solution:

1) Operatingsystem=['windows','ios','symbian']
   Operatingsystem.insert(2,"android")
2) print(Operatingsystem)
3) Operatingsystem.remove("ios")
4) Operatingsystem.append('blackberry')
5) n=[67,34,98,12,45]
   n.sort()
6) n.pop(2)
7) n.reverse()
8) print(n)

```
Python 3.10 (64-bit)
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> Operatingsystem=['windows','ios','symbian']
>>> Operatingsystem.insert(2,"android")
>>> print(Operatingsystem)
['windows', 'ios', 'android', 'symbian']
>>> Operatingsystem.remove("ios")
>>> Operatingsystem.append('blackberry')
>>> n=[67,34,98,12,45]
>>> n.sort()
>>> n.pop(2)
45
>>> n.reverse()
>>> print(Operatingsystem)
['windows', 'android', 'symbian', 'blackberry']
>>> print(n)
[98, 67, 34, 12]
>>>
```

Question-2:

Write a calculator program in python?

Solution:

```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")
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))
        next_calculation = input("Let's do next calculation? (yes/no): ")
        if next_calculation == "no":
            break
    else:
        print("Invalid Input")
```

```
10  print("Select operation.")
11  print("1.Add")
12  print("2.Subtract")
13  print("3.Multiply")
14  print("4.Divide")
15  while True:
16      choice = input("Enter choice(1/2/3/4): ")
17      if choice in ('1', '2', '3', '4'):
18          num1 = float(input("Enter first number: "))
19          num2 = float(input("Enter second number: "))
20          if choice == '1':
```

```
Select operation.
1.Add
2.Subtract
3.Multiply
4.Divide
Enter choice(1/2/3/4): 4
Enter first number: 10
Enter second number: 3
10.0 / 3.0 = 3.3333333333333335
Do you want to continue? (yes/no): yes
Enter choice(1/2/3/4): 3
Enter first number: 10
Enter second number: 4
10.0 * 4.0 = 40.0
Do you want to continue? (yes/no): no


...Program finished with exit code 0
Press ENTER to exit console.
```

Question-3:

Write a program to concatenate, reverse and slice a string?

Solution:

```python
str1="Hello"

str2="World"

print ("String 1:",str1)

print ("String 2:",str2)

str=str1+str2

print(str)

def reverse(s):

    str = ""

    for i in s:

        str = i+str

    return str

s = "Hello IBM"

print(reverse(s))

String = 'Hello IBM'

print(String[:3])
```

```
String 2: World
HelloWorld
MBI olleH
Hel


...Program finished with exit code 0
Press ENTER to exit console.
```

Question-4:

Why is python a popular programming language?

Solution:

Python was an easily understandable programming language. It has very simple syntax, which

will be easier for the beginners to learn. And also it supports many libraries.

Question-5:

What are the other frameworks that can be used with python?

Solution:

- Django
- Flask
- Web2py
- Bottle

Question-6:

Full form of WSGI?

Solution:

Web server gateway interface