

## Assignment -2 html

Assignment Date	23 September 2022
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Maximum Marks	2 Marks

## python assignment

### Question-1:

Perform following list functions in python

- (i) print the list
- (ii) (II)remove the first integer in list
- (iii) insert a integer at end of the list sort the list
- (iv) Sort the list
- (v) Pop the last element in the list
- (vi) Reverse the list

### List function:

python assignment

my list

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

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

```
In [3]: my_list = [1, 2, 3]
del my_list[0]
print(my_list)

[2, 3]
```

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

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

[1, 2, 3, 4]
```

IV) sort: (sort the list)

```
In [5]: my_list = [5,3,2,5,7,9,1,0,4]
my_list.sort
print(my_list)

[0, 1, 2, 3, 4, 5, 7, 9]
```

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

```
In [7]: my_list = [5,3,2,5,7,9,1,0,4]
        my_list.pop(8)
        print(my_list)

[5, 3, 2, 5, 7, 9, 1, 0]
```

VI) reverse: (reverse the list)

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

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

## 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:**

```
Select operation.  
1.Add  
2.Subtract  
3.Multiply  
4.Divide  
Enter choice(1/2/3/4): 3  
Enter first number: 2  
Enter second number: 23  
2.0 * 23.0 = 46.0
```

**Question 3:**

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

**String concatenate code:**

```
str_1='hello '
```

```
str_2='world'
```

```
str_3=str_1+str_2
```

```
print(str_3)
```

**output**

```
In [4]: str_1='hello '  
str_2='world'  
str_3=str_1+str_2  
print(str_3)
```

```
hello world
```

### **String reverse code:**

```
def reverse(s):  
    str = ""  
    for i in s:  
        str = i + str  
    return str  
  
s = "ibm_assignments"  
print("The original string is : ", end="")  
print(s)  
print("The reversed string(using loops) is : ", end="")  
print(reverse(s))
```

### **output:**

```
In [5]: def reverse(s):  
        str = ""  
        for i in s:  
            str = i + str  
        return str  
  
s = "ibm_assignments"  
  
print("The original string is : ", end="")  
print(s)  
  
print("The reversed string(using loops) is : ", end="")  
print(reverse(s))  
  
The original string is : ibm_assignments  
The reversed string(using loops) is : stnemngissa_mbi
```

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### **String slice code:**

```
String = 'smartinternz'  
  
s1 = slice(3)  
s2 = slice(1, 5, 2)  
  
print(String[s1])  
print(String[s2])
```

### **output:**

```
In [7]: String = 'smartinternz'  
s1 = slice(3)  
s2 = slice(1, 5, 2)  
print(String[s1])  
print(String[s2])  
  
sma  
mr
```

