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## 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, 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)

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

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
```

---

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
```