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Subject: CSE 120 PYTHON PROGRAMMING

CA2 -MODULE 2 Activity

1. write a program that accepts different number of arguments and return sum of only the positive values

In [8]:

```
1 num = 0
2 res = 0
3 inp = int(input("Enter the no.of digits you want to Add"))
4 for i in range(inp):
5     num = int(input('Enter a number: '))
6     if num>=0:
7         res += num
8
9 print('The Sum of the Positives Numbers you entered is', res)
```

Enter the no.of digits you want to Add3

Enter a number: 8

Enter a number: -9

Enter a number: 7

The Sum of the numbers you entered is 15

2. write a program that combines the two list

In [55]:

```
1 l1 = []
2 l2 = []
3 res = 0
4 count = 1
5 count1 = 1
6 num = int(input("Enter the no. of elements you want to append in both the lists: "))
7 while count <= num:
8     inp1 = input("Enter Any number for List 1:")
9     l1.extend(inp1)
10    count += 1
11 while count1 <= num:
12     inp2 = input("Enter Any number for List 2:")
13     l2.extend(inp2)
14     count1 += 1
15 res = l1 + l2
16 print(res)
```

```
Enter the no. of elements you want to append in both the lists: 2
Enter Any number for List 1:4
Enter Any number for List 1:5
Enter Any number for List 2:6
Enter Any number for List 2:7
['4', '5', '6', '7']
```

3. write a program to cube every elements in the tuple

In [46]:

```
1 tup=()
2 num=int(input("enter the number of elements: "))
3 for i in range(1,num+1):
4     val=int(input("enter element %d=%i"))
5     tup+=(val,)
6 print("tuple =",tup)
7 for i in tup:
8     print(i,i**3)
```

```
enter the number of elements: 2
enter element 1=4
enter element 2=5
tuple = (4, 5)
4 64
5 125
```

4. write a program that has list of numbers (both positive and negative). make a new tuple that has only positive values from the tuple

In [45]:

```
1 mytup=()
2 num=int(input("Enter the number of elements in tuple:"))
3 for i in range(1,num+1):
4     element=int(input("Enter element %d :"%i))
5     mytup+=(element,)
6 print("tuple=",mytup)
7 postup=()
8 for i in mytup:
9     if i>0:
10         postup+=(i,)
11 print("positive tuple=",postup)
```

Enter the number of elements in tuple:6

Enter element 1 :5

Enter element 2 :-8

Enter element 3 :7

Enter element 4 :-6

Enter element 5 :8

Enter element 6 :-1

tuple= (5, -8, 7, -6, 8, -1)

positive tuple= (5, 7, 8)

5. Write a program that creates two dictionaries. one that stores conversion values from meters to cm and the other that stores values from cm to meters.

In [69]:

```

1 sel = int(input("Enter\n 1 For converting cm to m\n 2 For converting m to cm \n"))
2 count = int(input("Enter how many times You want to run this code: "))
3
4 dict1 = {}
5 dict2 = {}
6
7 for i in range (count):
8     num = int(input("Enter a number to convert:"))
9     if sel == 1:
10         conv1 = num/100
11         dict1[num] = conv1
12         num+=1
13     elif sel == 2:
14         conv2 = num*100
15         dict2[num] = conv2
16
17         num+=1
18     else:
19         print("Please enter a valid input")
20 if sel==1:
21     print(dict1)
22 else:
23     print(dict2)

```

Enter

1 For converting cm to m

2 For converting m to cm

2

Enter how many times You want to run this code: 2

Enter a number to convert:45

Enter a number to convert:56

{45: 4500, 56: 5600}

6. a. Write a program that creates a dictionary of cubes of odd numbers in range 1-50

In [56]:

```

1 dict1 = {}
2 for i in range(1,51,2):
3
4     a = i**3
5     dict1[i] = a
6 print(dict1)
7

```

```

{1: 1, 3: 27, 5: 125, 7: 343, 9: 729, 11: 1331, 13: 2197, 15: 3375, 17: 491
3, 19: 6859, 21: 9261, 23: 12167, 25: 15625, 27: 19683, 29: 24389, 31: 2979
1, 33: 35937, 35: 42875, 37: 50653, 39: 59319, 41: 68921, 43: 79507, 45: 911
25, 47: 103823, 49: 117649}

```

6. b Write a program to create a list of numbers from the list range from 1-30. then delete all the numbers from the list that are divisible by 3.

In [88]:

```
1 lst = []
2 for i in range(1,21):
3     lst.append(i)
4 print (lst)
5 for index,i in enumerate(lst):
6     if (i%3 == 0):
7         del lst[index]
8 print("The list after deletion of elements that are divisible by 3 are: ",lst)
```

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]
The list after deletion of elements that are divisible by 3 are: [1, 2, 4, 5, 7, 8, 10, 11, 13, 14, 16, 17, 19, 20]

6c. write a program to print the string which has the vowel in it eg: [python, C, R,ML,Java] output: python,Java

In [1]:

```
1 lst = []
2 res = []
3 num = int(input("How many elements you want to enter: "))
4 for i in range(1,num+1):
5     var = input("Enter string: ")
6     lst.append(var.lower())
7 for i in lst:
8     for j in i:
9         if j in ["a","e","i","o","u"]:
10             res.append(i)
11         else:
12             pass
13 print("The final list is ",res)
```

How many elements you want to enter: 2
Enter string: python
Enter string: C
The final list is ['python']

WELL DONE