NAME :- M.ARJUN

UNIQUE ID:- E0222054

SUBJECT : CSE 120 PYTHON PROGRAMING

CA2 - MODULE 2 ACTIVITY

1) Write a program that accepts different number of arguments and returns sum of only the positive values.

CODE :-

```
num = 0
res = 0
inp = int (input(" Enter the no. of digits you want to add: "))
for i in range (inp):
    num = int (input(" Enter a number: "))
    if num >= 0:
        res += num
print (" The Sum of Positive Numbers you entered is ", res)
```

OUTPUT :-

```
Enter the no. of digits you want to add: 3
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.

```
l1 = []
l2 = []
res = 0
count = 1
count1 = 1
num = int(input("Enter the no. of elements you want to append
                 in each list:"))
while count <= num:
    inp1 = input("Enter Any number for List 1:")
    l1.extend(inp1)
    count += 1
while count1 <= num:
    inp2 = input("Enter Any number for List 2:")
    l2.extend(inp2)
    count1 += 1
res = l1 + l2
print(res)
```

OUTPUT:-

```
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 : 6
Enter Any number for List 2 : 5
Enter Any number for List 2 : 7
```

['4', '5', '6', '7']

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

CODE:-

```
tup = ()
num = int(input("Enter the no. of elements: "))
for i in range(1, num+1):
        val = int(input("Enter element %d = "%i))
        tup += (val,)
print("tuple = ", tup)
for i in tup:
        print(i, i**3)
```

OUTPUT:-

Enter the no. 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.

CODE :-

```
mytup = ()
num = int(input("Enter the no. of elements in Tuple: "))
for i in range(1, num+1):
        element = int(input("Enter element %d :"%i))
        mytup += (element,)
print("tuple=", mytup)
postup = ()
for i in mytup:
        if i>0:
            postup += (i,)
print("positive tuple =", postup)
```

OUTPUT :-

```
Enter the number of elements in tuple: 3
Enter element 1 : 5
Enter element 2 : -8
Enter element 3 : 7
tuple = (5, -8, 7)
positive tuple = (5, 7)
```

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.

```
sel = int(input("Enter \n 1 for Converting cm to m\n
                 2For Converting m to cm \n"))
count = int(input("Enter how many times You want to
                   run this code: "))

dict1 = {}
dict2 = {}

for i in range(count):
    num = int(input("Enter a number to convert: "))
    if sel==1:
        conv1 = num/100
        dict1[num] = conv1
        num+=1
    elif sel==2:
        conv2 = num*100
        dict2[num] = conv2
        num+=1
    else:
        print("Please enter a valid Input")

if sel==1:
    print(dict1)

else:
    print(dict2)
```

OUTPUT:-

```
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 dictionary of cubes of odd numbers in range 1-50.

CODE:-

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

OUTPUT:-

```
{1:1 , 3:27 , 5:125, 7:343 .....
... 43: 79507 , 45: 91125, 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 numbers from the list that are divisible by 3.

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

OUTPUT:-

[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]

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

```
lst = []
res = []
num = int(input("How many elements you want to enter: "))
for i in range(1, num+1):
    var = input("Enter String: ")
    lst.append(var.lower())
for i in lst:
    for j in i:
        if j in ["a", "e", "i", "o", "u"]:
            res.append(i)
        else:
            pass
print("The final list is", res)
```

OUTPUT:

Enter how many elements you want to enter: 2

Enter string : python

Enter string : C

python

The final list is ['python']