**Exercise 3**

Qn.1 Write a python program to add all the odd numbers from 0 to 20.

s = 0

for i in range(1,21,2):

    s = i+s

print(s)

Q 2: Write a python program to find the sum of all integers greater than 100 and less than 200.

s = 0

for i in range(101,200):

    s = i+s

print(s)

Q3: Write a program to display the sum of square of the first ten even natural numbers

s = 0

for i in range(2,21,2):

    s = s+(i\*\*2)

print(s)

Q4|: Write a menu driven program to perform various list operations, such as:

1. Append an element

2. Insert an element at the desired position

3. Append a list to the given list

4. Modify an existing element

5. Delete an existing element by its position

6. Delete an existing element by its value

7. Sort the list in ascending order

8. Sort the list in descending order

9. Display the list

10.Exit

Output:

The list &#39;myList&#39; has the following elements [22, 4, 16, 38, 13]

L I S T O P E R A T I O N S

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ENTER YOUR CHOICE (1-10): 8

The list has been sorted in reverse order

The list &#39;myList&#39; has the following elements [38, 22, 16, 13, 4]

my\_list = [int(i) for i in input("Enter list values").split(",")]

while True:

    c = int(input("enter your choice: 1,2...9"))

    if c==2:

        print(my\_list)

        i = int(input("enter your desired position"))

        v = input("enter your desired value")

        my\_list.insert(i,v)

        print(my\_list)

    elif c ==1:

        print(my\_list)

        v = input("enter your desired value")

        my\_list.append(v)

        print(my\_list)

    elif c==3:

        print(my\_list)

        list2 = [int(i) for i in input("Enter list values").split(",")]

        my\_list.append(list2)

        print(my\_list)

    elif c==4:

        print(my\_list)

        i = int(input("enter your desired position"))

        v = input("enter your desired value")

        my\_list[i]=v

        print(my\_list)

    elif c==5:

        print(my\_list)

        i = int(input("enter your desired position for delete"))

        del my\_list[i]

        print(my\_list)

    elif c==6:

        print(my\_list)

        my\_list

        v = input("enter your desired value from the my\_list")

        my\_list.remove(v)

        print(my\_list)

    elif c==7:

        print(my\_list)

        my\_list.sort()

        print(my\_list)

    elif c==8:

        print(my\_list)

        my\_list.sort(reverse = True)

        print(my\_list)

    elif c==9:

        print(my\_list)

        print(my\_list)

    else:

        break

Q5: Write a python program to display ascii characters from 65 to 90

for i in range(65,91):

    p = chr(i)

    print(f"{i} = {p}")

Q6: Display ascii characters from 48 to 57.

for i in range(48,58):

    p = chr(i)

    print(f"{i} = {p}")

Q7: Display the following output with the help of Ascii character.

for i in range(97,123):

    p = chr(i)

    print(f"{i} = {p}")

Q8: Write a python program for given a Python list you should be able to display Python list in the following order

L1 = [100, 200, 300, 400, 500]

l1 = [100,200,300,400,500]

l2 = l1[::-1]

l2

Q9: Given a Python list. Write a python program to turn every item of a list into its square

List1 = [1, 2, 3, 4, 5, 6, 7]

list1 = [1,2,3,4,5,6,7]

list2 = []

for i in list1:

    list2.append(i\*\*2)

print(list2)

Q10: Program to count the number of each vowel in a string.

string = input("Enter you string")

a\_count = string.count("a")

e\_count = string.count("e")

i\_count = string.count("i")

o\_count = string.count("o")

u\_count = string.count("u")

print(a\_count)

print(e\_count)

print(i\_count)

print(o\_count)

print(u\_count)

Q11: write a Program to sort alphabetically the words form a string provided by the user.

[You can use split() method to split string into a list of words. ]

string = input("write")

string = string.replace(" ","")

str2 = sorted(string)

str2 = "".join(str2)

str2

Q 12: write a Program to Remove Punctuations from a String provided by the user. [Hint: use

punctuation attribute of string module to get all punctuations (i.e. !&quot;#$%&amp;\&#39;()\*+,-./:;&lt;=&gt;?@[\\]^\_`{|}~ ) ]

word = input("give your input")

word = word.replace(" ","")

import string

k = list(string.punctuation)

s = []

for i in word:

    if i not in k:

        s.append(i)

final = "".join(s)

print(final)

Q13: Write a python program to print the Following:

for i in range(1,4):

    for j in range(i,0,-1):

        print(j, end = "")

    print()

Q14: WAP to print the following asterisk pattern:for i in range(1,7):

    for j in range(i):

        print("\*", end = "")

    print()

Q15: WAP to create a function traiangle to print the following asterisk triangle pattern:for i in range(1,7):

    for j in range(i):

        print("\*", end = "")

    print()

for i in range(1,7):

    for j in range(i,7):

        print("\*", end = "")

    print()

Q16: Write a python program to print following multiplication table on the screenfor i in range(1,11):

        if i <10:

            print(" ",end="")

        print(i,"| ",end = "")

        for j in range(1,11):

            print(i\*j, end = "\t")

        print()