

# Assignment2

June 7, 2022

- 1 Write A program to accept Four digit number from user and count zero , odd and even digits from the entered number

```
[15]: count_of_zero=0
count_of_odd=0
count_of_even=0
n =str(input("Enter the numbers"))
if len(n)==4:
    for i in str(n):
        i=int(i)
        if(i==0):
            count_of_zero+=1
        elif(i%2==0):
            count_of_even+=1
        elif(i%2 !=0):
            count_of_odd+= 1
    print("number of zeors in entered number",count_of_zero)
    print("number of odd number in entered number",count_of_even)
    print("number of even numbers in entered number",count_of_odd)
else:
    print("invalid input")
```

Enter the numbers123456  
invalid input

- 2 Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700

```
[1]: a=int(input("Enter the no="))
if a in range(1499,2701):
    if(a%7==0 and a%5==0):
        print(" true")
    else:
        print("False")
```

Enter the no=2300  
False

### 3 Write a Python program to convert temperatures to and from celsius, fahrenheit. Go to the editor

[ Formula :  $c/5 = f-32/9$  [ where c = temperature in celsius and f = temperature in fahrenheit ]  
Expected Output : 60°C is 140 in Fahrenheit 45°F is 7 in Celsius

```
[21]: c = float(input(" Enter temperature in Centigrade: "))
      f = (9*c/5)+32
      print(" Temperature in Fahrenheit is: ", f)
      f = float(input(" Enter temperature in fahrenheit: "))
      c = 5*((f-32)/9)
      print(" Temperature in centigrade is: ", c)
```

```
Enter temperature in Centigrade: 60
Temperature in Fahrenheit is:  140.0
Enter temperature in fahrenheit: 45
Temperature in centigrade is:  7.222222222222222
```

### 4 Write a Python program that accepts a word from the user and reverse it.

```
[3]: s1=str(input("Entre word"))
     a=s1[::-1]
     print(a)
```

```
Entrerahul dubal
labud luhar
```

### 5 Write a Python program to get the Fibonacci series between 0 to 50. Go to the editor

Note : The Fibonacci Sequence is the series of numbers : 0, 1, 1, 2, 3, 5, 8, 13, 21, .... Every next number is found by adding up the two numbers before it. Expected Output : 1 1 2 3 5 8 13 21 34

```
[1]: n=int(input("enter the number= "))
     num1,num2= 0,1
     while(num1<n):
         print(num1,end=" ")
         num=num1+num2
         num1=num2
         num2=num
```

```
enter the number= 10
0 1 1 2 3 5 8
```

## 6 Write a Python program to check whether an alphabet is a vowel or consonant.

```
[53]: a=(input("enter the Alpha bate= "))
list=['a','e','i','o','A','E','I','O','U']
if a in list :
    print("It is Vowel")
else:
    print("It is Constant")
```

```
enter the Alpha bate= A
It is Vowel
```

## 7 Write a Python program to sum of two given integers. However, if the sum is between 15 to 20 it will return

```
[4]: a=int(input("Enter value"))
b=int(input("Enter value"))
sum= a+b
if sum in range(14,21):
    print(sum)
else:
    print("invalid input")
```

```
Enter value10
Enter value10
20
```

## 8 Write a program to accept 'n' numbers from user , store these numbers into an array.

Find out maximum and minimum number from an Array

```
[4]: lst= []
num=int(input("enter the size of array"))
print ("Enter the list elements :")
for n in range(num):
    numbers=int(input())
    lst.append(numbers)
print("maximum number= ",max (lst))
print("minimum number= ",min (lst))
```

```
enter the size of array6
Enter the list elements :
6
5
4
3
1
2
maximum number= 6
minimum number= 1
```

#### 8.0.1 Write a menu driven program that shows the working of a library.

The menu option should be –ADD BOOK INFORMATION –DISPLAY BOOK INFORMATION  
–LIST ALL BOOKS OF GIVEN AUTHOR –LIST THE COUNT OF BOOKS IN THE LIBRARY  
–EXIT

[ ]:

### 9 Write a program to accept ‘n’ numbers from user , store these numbers into an array and sort the numbers of an array using function

```
[22]: lst1=[]
num=int (input("enter the number of elements ="))
for n in range(num):
    numbers= int(input())
    lst1.append(numbers)
lst1.sort()
lst1
```

```
enter the number of elements =4
5
8
3
7
```

[22]: [3, 5, 7, 8]

## 10 Write a program to accept customer details

10.1 such as : Account\_no, Name, Balance in Account, Assume Maximum 20 Customer In the bank. Write a function to print the account no and name of each customer with balance below rs 100

[ ]:

## 11 Write a program to accept 5 names from user and store these names into an array sort these array element in alphabetical order

```
[26]: str1 = []
      for n in range(5):
          name=str(input())
          str1.append(name)
      str1.sort()
      str1
```

ball  
at  
cat  
eat  
doll

```
[26]: ['at', 'ball', 'cat', 'doll', 'eat']
```

## 12 Write a program to calculate the sum of digits of a given number

```
[40]: n=int(input())
      l1=[]
      if (n<10):
          print ("digital sum=",n)
      else:
          S=str(n)
          for i in S:
              l1.append(int(i))
          print(sum(l1))
```

123456  
21

**13 Write a program to calculate the sum of first digit and last digit of a given number**

```
[43]: n= int(input())
L=[]
if (n<10):
    print("Invalid input, please input two digit number")
else:
    S=str(n)
    for i in S:
        L.append(int(i))
    print(L[0]+L[-1])
```

234567

9

**14 Write a program to accept a string from user , delete all vowels from the string and display the result**

```
[15]: S=str(input("Enter the string "))
L=[]
for i in S:
    if i not in ('a','e','i','o','u','A','E','I','O','U'):
        L.append(str(i))
str1 = ""
print (str1.join(L))
```

Enter the string rAhul dUbal

rhl dbl