**Exercise 5-Group 26(Satish &Salma)**

**Submission:**

* Name your file as ex5.doc
* Include the source code and a screenshot of the output for each question in your word doc
* One submission is needed from each group

1. Write a complete program that reads a string and displays the vowels. The vowels are A, E, I, O, U and a, e, i, o, u. Here are three sample runs:

**Sample Run 1**

Enter a string: Welcome to Python

The vowels are eoeoo

**Sample Run 2**

Enter a string: Student Union

The vowels are ueUio

**Sample Run 3**

Enter a string: AREIOUaeiouRTE

The vowels are AEIOUaeiouE

**Source CODE:**

text1=input("Enter a String:")

str1=""

for char in text1:

    if char in 'aeiouAEIOU':

        str1=str1+char

print("The vowels are",str1)

**Output:**

**Graphical user interface, text, application, Word

Description automatically generated**

*2. Count positive and negative numbers and compute the average of numbers)*

Write a program that reads an unspecified number of integers, determines how many positive and negative values have been read, and computes the total and average of the input values (not counting zeros). Your program ends with the input 0. Display the average as a floating-point number.

Sample Run 1

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Enter an integer, the input ends if it is 0: 1

Enter an integer, the input ends if it is 0: 2

Enter an integer, the input ends if it is 0: -1

Enter an integer, the input ends if it is 0: 3

Enter an integer, the input ends if it is 0: 0

The number of positives is 3

The number of negatives is 1

The total is 5

The average is 1.25

Sample Run 2

﻿Sample Output 2:

Enter an integer, the input ends if it is 0: 0

No numbers are entered except 0

**Source code:**

sum1=0

positive=0

negative=0

totalnumbers=0

n=int(input("Enter an integer,the input ends if it is 0"))

while n!=0:

    sum1=sum1+n

    if(n>0):

        positive=positive+1

    else:

        negative=negative+1

    n=int(input("Enter an integer,the input ends if it is 0"))

totalnumbers=positive+negative

average=sum1/totalnumbers

if totalnumbers==0:

    print("No numbers are entered except 0")

else:

    print("The number of positives is",positive)

    print("The number of neagtives is",negative)

    print("The total is",sum1)

    print("The average is",average)

**Output(Screenshot):**

**Text

Description automatically generated**