

Assignment-2



Vault of Codes

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GitHub Link- https://github.com/ssgochhayat/Vaults_of_codes_Internship.git

1. Write a program to count word frequencies in a given text.

```
#Write a program to count word frequencies in a given text.
"""
def countWord():
    text=input("Enter the text for count word frequency: ")
    w_lst=text.split()
    word=input("Enter the word to check it frequency:")
    count = 0
    for w in w_lst:
        if (w==word):
            count+=1
    print("Given '{}' word Frequency in the text is
    {}".format(word,count))

#Main Program
countWord()

def word_frequency():
    text=input("Enter a line of Text:\n").lower()
    words=text.split()
    dct=dict()
    for word in words:
        if word in dct:
            dct[word]=dct[word]+1
        else:
            dct[word]=1
    print("-"*50)
    print("\tWord Frequencies")
    print("-"*50)
    for i,j in dct.items():
        print("\t{} ---> {}".format(i,j))

word_frequency()
```

Output:

C:\Users\Hello\anaconda3\python.exe E:\Vaults_of_codes_Internship\A

Enter a line of Text:

I am Suman Kumar Gochhayat I am Suman Gochhayat I am Suman

Word Frequencies

i ---> 3

am ---> 3

suman ---> 3

kumar ---> 1

gochhayat ---> 2

Process finished with exit code 0

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2. Write a program that checks if a given word is a palindrome. (Palindrome Checker)

```
# Write a program that checks if a given word is a palindrome.
def checkPalindrome():
    word=input("\nEnter a Word to Check Palindrome or Not:")
    b=word.lower()
    print("-"*50)
    if b==b[::-1]:
        print("\t'{}' is a Palindrome.".format(word))
    else:
        print("\t'{}' is Not a Palindrome Word.".format(word))

#Main Program
checkPalindrome()
```

Output:

```
C:\Users\Hello\anaconda3\python.exe E:\Vaults_of_codes_Internship
Enter a Word to Check Palindrome or Not:Liril
-----
'Liril' is a Palindrome.
```

Process finished with exit code 0

3. List Manipulation

Create a list of numbers, then write a program that prints the square of each number in the list.

```
#Create a list of numbers, then write a program that prints the
square of each number in the list.
def Square_Of_List():
    try:
        a=int(input("Enter How Many Value Do You Want in a List:"))
        lst1=[]
        print("-"*50)
        for i in range(1,a+1):
            lst1.append(int(input("Enter {}'s
Value:".format(i)).format(i)))
        lst2=[]
        print("-"*50)
        for j in lst1:
            lst2.append(j**2)
        print("\tOriginal Content of List = \n\t{}".format(lst1))
        print("-"*50)
        print("\tSquare Value of List = \n\t{}".format(lst2))
    except ValueError:
        print("-"*50)
        print("Don't Enter Alphanumerics, STRS, Symbols...")

Square_Of_List()
```

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Output:

```
C:\Users\Hello\anaconda3\python.exe E:\Vaults_of_codes_
Enter How Many Value Do You Want in a List:5
-----
Enter 1's Value:10
Enter 2's Value:9
Enter 3's Value:8
Enter 4's Value:7
Enter 5's Value:6
-----
Original Content of List =
[10, 9, 8, 7, 6]
-----
Square Value of List =
[100, 81, 64, 49, 36]

Process finished with exit code 0
```

4. Create a presentation on the topic

- OOPs in Python

- PPT should be 6-10 slides with your name written on the first page