PRACTICAL-3

AIM: Write a program to check whether the given string is palindrome or not.

Source Code:

```
# function which return reverse of a string
def isPalindrome(s):
    return s == s[::-1]
# Driver code
s = input("Enter a string :\n#>")
ans = isPalindrome(s)


if ans:
    print("Yes")
else:
    print("No")
```

Output:

```
Enter a string :
#>qwerty
No
```
```
Enter a string :
#>aaabbaaa
Yes
```

AIM: Write a program that accepts a string from user and performs the following operations:

- Print the string in reverse order
- Print all the odd indexed charactes of the string
- Print the count of all the vowels in the string
- Print the count of the frequency of an input character in the string

Source Code:

```python
# print the string in reverse order
def toString(str):
    return str[::-1]
#print odd indexes characters of the string
def oddS(str):
    for i in str:
        if str.index(i) % 2 != 0 :
            print(i, end=" - ")
#count the vowels of a string
def vowelCount(str):
    string = str.lower()
    count = 0
    for i in str:
        if (i == 'a') or (i == 'e') or (i == 'u') or (i == 'i') or (i == 'o'):
            count+=1
    return count
# Print the count of the frequency of an input character in the string
def letcount(str,ch):
    count=0
    for i in str:
        if ch==i:
            count+=1
    return count

#menu
def next():
    bool = input("\nDo you want to continue [y/n]?")
    if bool == 'y':
```

FOTO SAAKOU Jery Khenson (92220103012)

```python
    menu()
def menu():

    str = input("Enter a string:\n#>")

    choice =
int(input("====================================MENU================
================\n"

                "[1] - Print the string in reverse order\n"

                "[2] - Print all the odd indexed charactes of the string\n"

                "[3] - Print the count of all the vowels in the string\n"

                "[4] - Print the count of the frequency of an input character in the string\nMake
a choice : "))

    if choice==1:

        print(toString(str))

        next()

    elif choice == 2:

        oddS(str)

        next()

    elif choice == 3:

        print(vowelCount(str))

        next()

    elif choice==4:

        char = input("Enter the character that you want frequency :\n#>")

        print("The frequency of '{0}' in '{1}' is {2}".format(char, str, letcount(str, char)))

        next()

    else:

        print("Error! ")

        next()

menu()
```

FOTO SAAKOU Jery Khenson (92220103012)

Output:

```
Enter a string:
#>qwerty

==================================MENU==================================
[1] - Print the string in reverse order
[2] - Print all the odd indexed charactes of the string
[3] - Print the count of all the vowels in the string
[4] - Print the count of the frequency of an input character in the string
Make a choice : 1
ytrewq
```

```
Enter a string:
#>India

==================================MENU==================================
[1] - Print the string in reverse order
[2] - Print all the odd indexed charactes of the string
[3] - Print the count of all the vowels in the string
[4] - Print the count of the frequency of an input character in the string
Make a choice : 2
n - i -
```

```
Enter a string:
#>Tricago

==================================MENU==================================
[1] - Print the string in reverse order
[2] - Print all the odd indexed charactes of the string
[3] - Print the count of all the vowels in the string
[4] - Print the count of the frequency of an input character in the string
Make a choice : 3
3
```

```
Enter a string:
#>Cameroon

==================================MENU==================================
[1] - Print the string in reverse order
[2] - Print all the odd indexed charactes of the string
[3] - Print the count of all the vowels in the string
[4] - Print the count of the frequency of an input character in the string
Make a choice : 4
Enter the character that you want frequency :
#>o
The frequency of 'o' in 'Cameroon' is 2
```

FOTO SAAKOU Jery Khenson (92220103012)