19th_August_Python_Basics.ipynb

May 11, 2024

[4]:
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#TOPIC: Python Basics Variable
'''1. Declare two variables, `x` and `y`, and assign them integer values. Swap
the values of these variables without using any temporary variable.'''

x=10
y=20
#variables have been declared

print('the value of x is', x)
print('the value of y is', y)

#Swapping the values of x and y
x=x+y
y=x-y
x=x-y

print('the value of x after swapping is', x)
print('the value of y after swapping is', y)
```

```
the value of x is 10
the value of y is 20
the value of x after swapping is 20
the value of y after swapping is 10
```

[7]:
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'''2. Create a program that calculates the area of a rectangle. Take the length
and width as inputs from the user and store them in variables. Calculate and
display the area.'''

print('TO FIND THE AREA OF A RECTANGLE')
#declaring length and breadth as variables and taking input from user
length = int(input("Enter the length of rectangle"))
breadth = int(input("Enter the breadth of rectangle"))
#taking input as integer values

area = length*breadth
print('The area of the rectangle is', area)
```

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TO FIND THE AREA OF A RECTANGLE
```

```
Enter the length of rectangle 19
Enter the breadth of rectangle 24

The area of the rectangle is 456
```

[9]:
```python
'''3. Write a Python program that converts temperatures from Celsius to
Fahrenheit. Take the temperature in Celsius as input, store it in a variable,
convert it to Fahrenheit, and display the result.'''

print('CELSIUS TO FAHRENHEIT')

#Taking the value of celcius as input from user
Celsius = float(input('Enter the temperature in degree celsius'))

Fahrenheit = (Celsius*9/5)+32 #formula to convert from celsius to fahrenheit

print('the temperature in degree fahrenheit is', Fahrenheit)
```

```
CELSIUS TO FAHRENHEIT

Enter the temperature in degree celsius 37.5

the temperature in degree fahrenheit is 99.5
```

[1]:
```python
#TOPIC: String Based Questions
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[3]:
```python
'''1. Write a Python program that takes a string as input and prints the length
of the string.'''

String = str(input('Enter a string'))
#String declare as user input

print(len(String))
# KEYWORD 'len' prints the length of the string
```

```
Enter a string TONY STARK

10
```

[15]:
```python
'''2. Create a program that takes a sentence from the user and counts the
number of vowels (a, e, i, o, u) in the string.'''

#Taking input from the usre
str1 = str(input('Enter the sentence'))

str2 = str1.count('a')            #Here count function counts the specific
str3 = str1.count('e')            #character in a string
str4 = str1.count('i')
str5 = str1.count('o')
str6 = str1.count('u')
```

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s1 = str1.count('A')
s2 = str1.count('E')
s3 = str1.count('I')
s4 = str1.count('O')
s5 = str1.count('U')
vowels = (str2 + str3 + str4 + str5 + str6 + s1 + s2 + s3 + s4 + s5)
print('The number of vowels in the sentence are', vowels)
```

```
Enter the sentence My name is Anupam

The number of vowels in the sentence are 6
```

[16]:
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'''3. Given a string, reverse the order of characters using string slicing and
print the reversed string.'''

Name = 'AnupamBadola'
print(Name[::-1])
```

```
alodaBmapunA
```

[21]:
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'''4. Write a program that takes a string as input and checks if it is a
palindrome (reads the same forwards and backwards).'''

#taking string input from the user
string = str(input('Enter a string'))

#creating a reverse string 'pallindrome' of the input string
pallindrome = string[::-1]

#using if else statement
if pallindrome == string:
    print("Yes")
else:
    print("No")
```

```
Enter a string malayalam

Yes
```

[26]:
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'''5. Create a program that takes a string as input and removes all the spaces
from it. Print the modified string without spaces.'''

#Taking String input
string = str(input("Enter your sentence"))

Newstr = string.replace(" ","") #Here replace function swaps the two characters
print(Newstr)                   # in a string
```

```
Enter your sentence what is you r na m e ?
whatisyourname?
```

[ ]: