

# 19th\_August\_Python\_Basics

September 7, 2023

[12]: *#Swap the values of variables without using any temporary variable.*

```
try:
    x = int(input("Enter the value of x?"))
    y = int(input("Enter the value of y?"))
    print('Before swapping:')
    print(x)
    print(y)

    #swapping#
    x = x + y
    y = x - y
    x = x - y
    print('After swapping:')
    print(x)
    print(y)

except:
    logging.info('blah', exc_info=True)
```

Enter the value of x? 2

Enter the value of y? 3

Before swapping:

2

3

After swapping:

3

2

[13]: *#Create a program that calculates the area of a rectangle.*

```
try:
    x = int(input("Enter the value of Length?"))
    y = int(input("Enter the value of Width?"))

    Area=x*y;

    print(Area)
```

```
except:
    logging.info('blah', exc_info=True)
```

Enter the value of Length? 3

Enter the value of Width? 4

12

```
[14]: #Write a Python program that converts temperatures from Celsius to Fahrenheit.
try:
    celsius= int(input("Enter the value of temperature in Celsius?"))
    fahrenheit = (celsius * 1.8) + 32

    print(fahrenheit)

except:
    logging.info('blah', exc_info=True)
```

Enter the value of temperature in Celsius? 12

53.6

```
[5]: #printing length of input string
try:
    string_Input = str(input("Enter the value of String?"))
    print(len(string_Input))

except:
    logging.info('blah', exc_info=True)
```

Enter the value of String? Abhishek

8

```
[15]: #Program that counts the number of vowels in ninput string
try:
    string = input("Please enter your input: ")
    vowels = 0
    for i in string:
        if (i == 'a' or i == 'e' or i == 'i' or i == 'o' or i == 'u' or i == 'A'
            or i == 'E' or i == 'I' or i == 'O' or i == 'U'):
            vowels = vowels + 1
    print("Number of vowels are:")
    print(vowels)
except:
    logging.info('blah', exc_info=True)
```

Please enter your input: samy

Number of vowels are:

1

[7]: *#Given a string, reverse the order of characters using string slicing and print the reversed string.*

```
try:
    x = (input("Enter the value of String?"))
    stringlength=len(x) # calculate length of the list
    slicedString=x[stringlength::-1]
    print (slicedString)
except:
    logging.info('blah', exc_info=True)
```

Enter the value of String? India is a great country

yrtnuoc taerg a si aidnI

[10]: *#Write a program that takes a string as input and checks if it is a palindrome*

```
try:
    def isPalindrome(s):
        return s == s[::-1]

    string = (input("Enter value of String"))
    ans = isPalindrome(string)

    if ans:
        print("Yes")
    else:
        print("No")
except:
    logging.info('blah', exc_info=True)
```

Enter value of String radar

Yes

[20]: *#Create a program that takes a string as input and removes all the spaces from it. Print the modified string without spaces.*

```
try:
    def remove(string):
        return string.replace(" ", "")

    string = input("Please enter your string: ")
    print(remove(string))
except:
    logging.info('blah', exc_info=True)
```

Please enter your string: ab ab ab

ababab

[ ]: