22nd_August_Python_Basics

August 22, 2023

```python
[1]: #Python basic variable
     # Q1 Swapping two number without using third variable
     X = 10
     Y = 20
     X = X+Y
     Y = X-Y
     X = X-Y
```

```python
[4]: X
```

```
[4]: 20
```

```python
[5]: Y
```

```
[5]: 10
```

```python
[1]: #Q2 Calculate area of rectangle
     n = int(input("length"))

     m = int(input("bratdth"))

     area  = n*m
     print("area of rectangle:",area)
```

```
length 30
bratdth 20

area of rectangle: 600
```

```python
[2]: #Q3 convert temperature to celsius to fahrenheit
     Celcius = float(input("temperature in celsius"))

     fahrenheit = Celcius*9/5+32
     print("temperature in Fahrenheit:",fahrenheit)
```

```
temperature in celsius 30.6

temperature in Fahrenheit: 87.08000000000001
```

```
[ ]:

[3]: #String based questions
     #Q1 Take string as input and  print the length

     s = str(input("input string:"))
     print(len(s))
```

input string: vimal

5

```
[4]: #Q2 Taking sentence as an input and counting the vowels
     S1 = str(input("enter the sentence:"))
     S2 = S1.lower()
     print(S2)
     S3 = "aeiou"
     count = 0
     for i in S2:
         if i in S3:
             count = count + 1
     print("the number of vowel is:",count)
```

enter the sentence: I Am Vimal

i am vimal
the number of vowel is: 4

```
[45]: #Q3 Printing the reverse string
      S4 = "My name is vimal"
      S5 = S4[ : :-1]
      print(S5)
```

lamiv si eman yM

```
[50]: #Q4 checking input string is palindrome or not
      S6 = str(input("enter a string:"))
      S7 = S6[ : :-1]
      if S6 == S7:
          print(S6,"is a palindrome")
      else:
          print(S6,"is not a palindrome")
```

enter a string: madam

madam is a palindrome

```
[5]: #Q5 remove all the spaces and print the string
```

```python
S8 = str(input("enter the string:"))

S9 = S8.replace(" ","")

print(S9)
```

enter the string: i am vimal
iamvimal

[ ]: