

PYTHON BASIC VARIABLES

QUESTION 1

```
In [12]: # Declare the variables
x = 5
y = 10
```

```
In [25]: # Swap the values without using a temporary variable
x = x+y
y = x-y
x = x-y

# Print the swapped values
print("After swapping: x =", x, ",y=",y)
```

After swapping: x = 5 ,y= 10

QUESTION 2

```
In [21]: # Input for Length and width
length = float(input("Enter the length of the rectangle:"))
width = float(input("Enter the width of the rectangle:"))
```

Enter the length of the rectangle:23.4
Enter the width of the rectangle:21.5

```
In [22]: # Calculate th area of the rectangle
area = length * width
# Display the calculated area
print(f"The area of the rectangle is: {area}")
```

The area of the rectangle is: 503.09999999999997

QUESTION 3

```
In [23]: # Get temperature in Celsius
celsius = float(input("Enter temperature in Celsius:"))

# Convert Celsius to Fahrenheit
fahrenheit = (celsius * 9/5) + 32

# Display the result
print(f"{celsius}degree Celsius is equal to {fahrenheit}degrees Fahrenheit.")
```

Enter temperature in Celsius:34
34.0degree Celsius is equal to 93.2degrees Fahrenheit.

STRING BASED QUESTIONS

QUESTION 1

```
In [27]: user_input = input("Enter a string :")
length_of_string = len(user_input)
print("Length of the string :", length_of_string)
```

Enter a string :jasmine
Length of the string : 7

QUESTION 2

```
In [24]: string = ("I am pursuing Masters")
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=='
        vowels=vowels+1
print("Number of vowels are:")
print(vowels)
```

Number of vowels are:
7

QUESTION 3

```
In [11]: string = "jasmine"
print(string[::-1])
```

enimsaj

QUESTION 4

```
In [15]: string = input(("Enter a letter:"))
if(string==string[::-1]):
    print("The letter is a palindrome")
else:
    print("The letter is not a palindrome")
```

Enter a letter:noon
The letter is a palindrome

QUESTION 5

```
In [20]: def remove(string):  
         return string.replace(" ", "")  
         string = 'j a s m i n e'  
         print(remove(string))
```

jasmine

In []:

In []:

In []:

In []:

In []:

In []: