Python Basic Assignment

August 24, 2023

[1]:
```python
# Q1. Declare two variables, `x` and `y`, and assign them integer values. Swap
 ↪the
#     values of these variables without using any temporary variable.

x=4
y=8
x,y=8,4
print(" New Value of x=",x,"New Value of y=",y)
```

```
 New Value of x= 8 New Value of y= 4
```

[ ]:

[4]:
```python
#  Q2. 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.


L=int(input('Length of rectangle='))
W=int(input('Width of rectangle='))
Area=L*W
print("Area of Rectangle=",Area)
```

```
Length of rectangle= 6
Width of rectangle= 4

Area of Rectangle= 24
```

[ ]:

[5]:
```python
# Q3. 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.

# C- Celsius
# F- Fahrenheit
```

```
C=42
F = C * (9/5) + 32
print(F)
```

107.60000000000001

[ ]: ```
String Based Questions
```

[9]: ```
# Q1. Write a Python program that takes a string as input and prints the
↪length of
#     the string.

S="I Like PW Skills"
L=len(S)
print("Length of string-",L)
```

Length of string- 16

[ ]:

[16]: ```
Q2. Create a program that takes a sentence from the user and counts the
↪number
of vowels (a, e, i, o, u) in the string.

str1 = input("Please Enter Your Own String : ")
vowels = 0

for i in str1:
    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("Total Number of Vowels in this String = ", vowels)
```

Please Enter Your Own String :  Hi My name is anjani kumar and I am from
jharkhand

Total Number of Vowels in this String =  15

[ ]:

[17]: ```
# Q3. Given a string, reverse the order of characters using string slicing and
↪print
#     the reversed string.
```

```
s1="I Like PW Skills"
s1[::-1]
```

[17]: 'sllikS WP ekiL I'

[ ]:

[24]:
```
#  Q4. Write a program that takes a string as input and checks if it is a
   ↪palindrome
#      (reads the same forwards and backwards).

p1="madam"
p2=p1[::-1]
if p1==p2:
    print('This is palindrome')
else:
    print('This is not a palindrome')
```

This is palindrome

[ ]:

[27]:
```
#  Q5. Create a program that takes a string as input and removes all the spaces
   ↪from
#      it. Print the modified string without spaces.


z1="Hello PW Skills"
z2=z1.replace(" ","")
print("Modified string-",z2)
```

Modified string- HelloPWSkills

[ ]: