INTERNSHIP TASKS

Day 4:

EXERCISE – 4

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Course   : Python

Org   : IGIAT – VSKP

Date   : 24-03-2024

```python
#Task 1
print("\nTask 1 : Concatenate the String \'Thirty\', \'Days\', \'Of\',
\'Python\' to single String");
string = "Thirty";
string += " Days "+"Of"+" Python";
print(string);

#Task 2
print("\nTask 2 : Concatenate the String \'Coding\', \'For\', \'All\' to single
String");
string1 = "Coding";
string1 += " For" + " All";

#Task 3
print("\nTask 3 : Declare a variable named company and assign it to an initial
value \'Coding For All\'");
company = "Coding For All";

#Task 4
print("\nTask 4 : Print the variable company using print()");
print("Company : ", company);

#Task 5
print("\nTask 5 : Print the length of company string using len() method and
print()");
print("Length of \'", company , "\' is : ", len(company));

#Task 6
print("\nTask 6 : Change all the character to uppercase letters.");
upperCase_company = company.upper();
print("Company Variable Upper Case : ", upperCase_company);

#Task 7
print("\nTask 7 : Change all the characters to lowercase letters.");
lowerCase_company = upperCase_company.lower();
print("Company Variable Lower Case : ", lowerCase_company);

#Task 8
print("\nTask 8 : Use capitalize(), title(), swapcase() methods to format the
value of the string \'Coding For All\'.");
company = "coding for all";
print("Actual String : ", company);
print("capitalize() : ", company.capitalize());
print("title() : ", company.title());
print("swapcase() : ", company.swapcase());

#Task 9
print("\nTask 9 : Cut out the first word of \'Coding For All\'");
print("First word : ", company[0:6]);
```

```python
#Task 10
print("\nTask 10 : Check if \'Coding For All\' string contains a word
\'Coding\' using the string methods.");
string = "Coding For All";
if(string.find("Coding") != -1):
    print("Yes! There is a substring \'Coding\' in Coding For All");
else:
    print("No! There is no substring \'Coding\' in Coding For All");

#Task 11
print("\nTask 11: Replace the word \'Coding\' in the string \'Coding For All\'
to \'Python\'");
string = string.replace("Coding", "Python");
print("Replaced String : ", string);

#Task 12
print("\nTask 12: Change \'Python For Everyone\' to \'Python For All\' using
the replace method or other methods");
string = "Python For Everyone"
string = string.replace("Everyone", "All");
print("Replaced String : ", string);

#Task 13
print("\nTask 13: Split the string \'Coding For All\' using space as the
seperator (split()) ");
string = "Coding For All"
string_splited = string.split(" ");
print("The Splitted String : ", string_splited);

#Task 14
new_string = "Facebook, Google, Microsoft, Apple, IBM, Oracle, Amazon";
print("Task 14: \'Facebook, Google, Microsoft, Apple, IBM, Oracle, Amazon\'
split the string at the comma");
new_string_splited = new_string.split(",");
print("Splited : ", new_string_splited);

#Task 15
print("\nTask 15: What is the character at the index 0 in the string \'Coding
For All\'.");
print("Character at index 0 is : ", string[0]);

#Task 16
print("\nTask 16: What is the last index of the string \'Coding For All\'");
print("Last index of the string \'", string, "\' : ", (len(string) - 1));

#Task 17
print("\nTask 17: What character is at index 10 in \"Coding For All\" string");
print("Character at index 10: ", string[10]);
```

```python
#Task 18
print("\nTask 18: Create an acronym or an abbrevation for the name \'Python For
Everyone\' ");
string1 = "Python For Everyone";
string1_split = string.split(" ");
acronym = string1_split[0][0] + string1_split[1][0] + string1_split[2][0];
print("The Acronym for \'Python For All\' : ", acronym);

#Task 19
print("\nTask 19: Create an acronym or an abbrevation for the name \'Coding For
All\'");
string2 = "Coding For All";
string2_split = string.split(" ");
acronym1 = string2_split[0][0] + string2_split[1][0] + string2_split[2][0];

#Task 20
print("\nTask 20: Use index() to determine the position of the first occurrence
of C in Coding For All");
index = string2.index('C');
print("The Index of C in first occurance : ", index);

#Task 21
print("\nTask 21: Use index() to determine the position of the first occurance
of F in Coding For All");
index1 = string2.index('F');
print("The Index of F in second occurance : ", index1);

#Task 22
print("\nTask 22: Use rfind() to determine the position of the last occurance
of l in Coding For All People");
index2 = "Coding For All People".rfind('l');
print("The last occurance of l : ", index2);

#Task 23
print("\nTask 23: Use index() or find() to find the position of the first
occurrence of the word \'because\' in the following sentence:\n\'You cannot end
a sentence with because because because is a conjunction\'");
print("The First Occurance : ", ("You cannot end a sentence with because
because because is a conjunction").index("because"));

#Task 24
print("\nTask 24: Use rindex() to find the position of the last occurrence of
the word because in the following sentence:\n\'You Cannot end a sentence with
because because because is a conjunction\'");
print("The last occurrence is at : ", ("You Cannot end a sentence with because
because because is a conjunction").rindex('because'));
```

```python
#Task 25
print("\nTask 25: Slice out the phrace \'because because because\' in the
following sentence:\n\'You Cannot end a sentence with because because because
is a conjunction\'");
print("Sliced : ", ("You Cannot end a sentence with because because because is
a conjunction")[31:55]);

#Task 26
print("\nTask 26: Find the position of the first occurance of the word
\'because\' in the following sentence: \n\'You Cannot end a sentence with
because because because is a conjunction\'");
print("First Occurance is at : ", ("You Cannot end a sentence with because
because because is a conjunction").index('because'));

#Task 27 : repeated task - actual task : Task 25

#Task 28
print("\nTask 28: Does \'Coding For All\' starts with a substring \'Coding\'");
print("Is it? : ", ("Coding For All").startswith("Coding"));

#Task 29
print("\nTask 29: Does \'Coding For All\' ends with a substring \'Coding\'");
print("Is it? : ", ("Coding For All").endswith("Coding"));

#Task 30
print("\nTask 30: \'\tCoding For All   \', remove the left and right trailing
spaces in the given string");
print("Output : \'", ('    Coding For All    ').strip(), "\'");

#Task 31
print("\nTask 31: Which one of the following variables return True when we use
the method isidentifier()");
print("1. 30DaysOfPython : ", ('30DaysOfPython').isidentifier());
print("1. thirty_days_of_python : ", ('thirty_days_of_python').isidentifier());

#Task 32
print("\nTask 32: The Following list contains the names of some of python
libraries:\n['Django', 'Flask', 'Bottle', 'Pyramid', 'Falcon'].Join the list
with a hash with space string");
modules_list = ['Django', 'Flask', 'Bottle', 'Pyramid', 'Falcon'];
joined_string = '# '.join(modules_list);
print("Output: ",joined_string);

#Task 33
print("\nTask 33: Use the new line espace sequence to seperate different
sentences");
print("Iam enjoying this challenge.\nI just wonder what is next.");
```

```python
#Task 34
print("\nTask 34: Use a tab escape sequence to add tabspaces between..");
print("Name\t\tAge\tCountry\tCity");
print("Asabeneh\t250\tFinland\tHelsinki");

#Task 35
print("\nTask 35: Use the string formatting method to display the message -
more details in 4.Strings.pptx file");
string = "{} = {}\n{} = {} * {} ** {}\n{} {} {} {} {}".format("radius", 10,
"area", 3.14, "radius", 2, "The area of a circle with radius", 10, "is", 314,
"meters square.")
print(string);

#Task 36
print("\nTask 36: Make the following using string formatting methods - more
details in 4.Strings.pptx file");
print(f"{8} + {6} = {8+6}\n{8} - {6} = {8-6}\n{8} * {6} = {8*6}\n{8} / {6} =
{8/6:.2f}\n{8} % {6} = {8%6}\n{8} // {6} = {8//6}\n{8} ** {6} = {8**6}");
```

Outputs:

```
Task 1 : Concatenate the String 'Thirty', 'Days', 'Of', 'Python' to single String
Thirty Days Of Python

Task 2 : Concatenate the String 'Coding', 'For', 'All' to single String

Task 3 : Declare a variable named company and assign it to an initial value 'Coding For All'

Task 4 : Print the variable company using print()
Company :  Coding For All

Task 5 : Print the length of company string using len() method and print()
Length of ' Coding For All ' is :  14

Task 6 : Change all the character to uppercase letters.
Company Variable Upper Case :  CODING FOR ALL

Task 7 : Change all the characters to lowercase letters.
Company Variable Lower Case :  coding for all

Task 8 : Use capitalize(), title(), swapcase() methods to format the value of the string 'Coding For All'.
Actual String :  coding for all
capitalize() :  Coding for all
title() :  Coding For All
swapcase() :  CODING FOR ALL

Task 9 : Cut out the first word of 'Coding For All'
First word :  coding

Task 10 : Check if 'Coding For All' string contains a word 'Coding' using the string methods.
Yes! There is a substring 'Coding' in Coding For All
```

```
Task 11: Replace the word 'Coding' in the string 'Coding For All' to 'Python'
Replaced String :  Python For All

Task 12: Change 'Python For Everyone' to 'Python For All' using the replace method or other methods
Replaced String :  Python For All

Task 13: Split the string 'Coding For All' using space as the seperator (split())
The Splitted String :  ['Coding', 'For', 'All']
Task 14: 'Facebook, Google, Microsoft, Apple, IBM, Oracle, Amazon' split the string at the comma
Splited :  ['Facebook', ' Google', ' Microsoft', ' Apple', ' IBM', ' Oracle', ' Amazon']

Task 15: What is the character at the index 0 in the string 'Coding For All'.
Character at index 0 is :  C

Task 16: What is the last index of the string 'Coding For All'
Last index of the string ' Coding For All ' :  13

Task 17: What character is at index 10 in "Coding For All" string
Character at index 10:

Task 18: Create an acronym or an abbrevation for the name 'Python For Everyone'
The Acronym for 'Python For All' :  CFA

Task 19: Create an acronym or an abbrevation for the name 'Coding For All'

Task 20: Use index() to determine the position of the first occurrence of C in Coding For All
The Index of C in first occurance :  0

Task 21: Use index() to determine the position of the first occurance of F in Coding For All
The Index of F in second occurance :  7

Task 22: Use rfind() to determine the position of the last occurance of l in Coding For All People
The last occurance of l :  19
```

```
Task 23: Use index() or find() to find the position of the first occurrence of the word 'because' in the following sentence:
'You cannot end a sentence with because because because is a conjunction'
The First Occurance :  31

Task 24: Use rindex() to find the position of the last occurrence of the word because in the following sentence:
'You Cannot end a sentence with because because because is a conjunction'
The last occurrence is at :  47

Task 25: Slice out the phrace 'because because because' in the following sentence:
'You Cannot end a sentence with because because because is a conjunction'
Sliced :  because because because

Task 26: Find the position of the first occurance of the word 'because' in the following sentence:
'You Cannot end a sentence with because because because is a conjunction'
First Occurance is at :  31

Task 28: Does 'Coding For All' starts with a substring 'Coding'
Is it? :  True

Task 29: Does 'Coding For All' ends with a substring 'Coding'
Is it? :  False

Task 30: '       Coding For All   ', remove the left and right trailing spaces in the given string
Output : ' Coding For All '

Task 31: Which one of the following variables return True when we use the method isidentifier()
1. 30DaysOfPython :  False
1. thirty_days_of_python :  True
```

```
Task 32: The Following list contains the names of some of python libraries:
['Django', 'Flask', 'Bottle', 'Pyramid', 'Falcon'].Join the list with a hash with space string
Output:  Django# Flask# Bottle# Pyramid# Falcon

Task 33: Use the new line espace sequence to seperate different sentences
Iam enjoying this challenge.
I just wonder what is next.

Task 34: Use a tab escape sequence to add tabspaces between..
Name            Age     Country City
Asabeneh        250     Finland Helsinki

Task 35: Use the string formatting method to display the message - more details in 4.Strings.pptx file
radius = 10
area = 3.14 * radius ** 2
The area of a circle with radius 10 is 314 meters square.

Task 36: Make the following using string formatting methods - more details in 4.Strings.pptx file
8 + 6 = 14
8 - 6 = 2
8 * 6 = 48
8 / 6 = 1.33
8 % 6 = 2
8 // 6 = 1
8 ** 6 = 262144
@DevaManikantaSala →.../codespaces-blank/IGIAT Internship Python Tasks/30DaysOfPython/day_4 $ 
```

Task 12 : Find the length 'python' and 'dragon' and make a falsy comparision statement
Length of 'python' :   6
Length of 'dragon' :   6
Falsy Statement :
'python' == 'dragon' : False

Task 13: Use 'and' operator to check if "on" is found in both "python" and "dragon"
Answer: True

Task 14: "I hope this course is not full of jargon". Use 'in' operator to check if "jargon" is in the sentence
Answer : True

Task 15: There is no "on" in both "dragon" and "python"
Result : False

Task 16 : Find the length of the text 'python' and convert the value to float and convert it to string.
The length of Python : 6 type : <class 'int'>
The length of Python : 6.0 type : <class 'float'>
The length of Python : 6.0 type : <class 'str'>

Task 17 : How do you check if a number is even or not using python?
Enter the number : 5
The number - 5 is ODD

Task 18 : Check if the floor division of 7 by 3 is equal to the "int" converted value of 2.7
Yes! Floor Division of 7 by 3 is equal to 'int' converted value of 2.7

Task 19 : Check if type of '10' is equal to type of 10
No! The Data types are not same!

Task 20 : Check if int(9.8) is equal to 10
No! int(9.8) is not equal to 10

Task 21: Write a script that prompts the user to enter hours and rate per hour calculate pay of the person?
Enter hours : 12
Enter rate per hour : 10
Your weekly earning is 120

Task 22: Write a script that prompts the user to enter number of years. Calculate the number of seconds a person can live. Assume a person can live hundred years
Enter number of years you have lived : 20
You have lived for 630720000 seconds.

Task 23: Write a python script that displays given table in 3.Operators.pptx
1 1 1 1 1

2 1 2 4 8

3 1 3 9 27

4 1 4 16 64

5 1 5 25 125

@DevaManikantaSala →.../codespaces-blank/IGIAT Internship Python Tasks/30DaysOfPython/day_3 $