Practice Problems and String Format

String → Practice Problems

1 Write a program to delete a given word in a String?

Requirements:

Input:

Enter a string → "Hello Python Developers World"

Enter a string to delete → "World"

Output

Hello Python Developers

Program - 2

Write a Program to sort words in alphabetical order.

Input: Output

String = "good work people" good

people

work

Program 3

Write a program to count the characters in a String.

Input: Output:

String: "Hello" H count is 1

e count is 1

I count is 2

O count is 1

Program 4

Write a program to convert decimal to binary using string format.

What does end =' do in Python?

The end parameter in the print function is used to add any string. At the end of the output of the print statement in python.

By default, the print function ends with a newline.

Passing the whitespace to the end parameter (end=' ') indicates that the end character has to be identified by whitespace and not a newline.

For example: print("Toppr", end=' ') print("is awesome") Output: Toppr is awesome For example: print("toppr", end=' says ') print("you are awesome") Output: toppr says you are awesome

format() method in String

The format() method that is available with the string object is very versatile and powerful in formatting strings. Format strings contain curly braces {} as placeholders or replacement fields which get replaced.

Example of String format

```
# Old Style formatting
# This prints out "John is 23 years old."
name = "John"
age = 23
print("%s is %d years old." % (name, age))
# The latest style formatting string using (f" ")
```

```
num1 = 83
num2 = 9
print(f"The product of {num1} and {num2} is {num1 * num2}.")
```

```
formatting_strings.py
#!/usr/bin/python

name = 'Peter'
age = 23
print('%s is %d years old' % (name, age))
```

print(f'{name} is {age} years old')

The example formats a string using two variables.

print('{} is {} years old'.format(name, age))

```
print('%s is %d years old' % (name, age))
```

This is the oldest option. It uses the % operator and classic string format specifies such as %s and %d.

```
print('{} is {} years old'.format(name, age))
```

Since Python 3.0, the format function was introduced to provide advance formatting options.

```
print(f'{name} is {age} years old')
```

Examples

```
num = 87;
print(f"Is num even? {True if num%2==0 else False}")
```

```
format_floats.py

#!/usr/bin/python

val = 12.3

print(f'{val:.2f}')
 print(f'{val:.5f}')

The example prints a formatted floating point value.

$ python format_floats.py
12.30
12.30000
```

```
format_width.py
 #!/usr/bin/python
for x in range(1, 11):
     print(f'{x:02} {x*x:3} {x*x*x:4}')
  format_notations.py
 #!/usr/bin/python
 a = 300
 # hexadecimal
 print(f"{a:x}")
 # octal
 print(f"{a:o}")
 # scientific
 print(f"{a:e}")
The example prints a value in three different notations.
$ python format_notations.py
12c
```

454

3.000000e+02

Number Formatting Types						
Туре	Meaning					
d	Decimal integer					
С	Corresponding Unicode character					
b	Binary format					
0	Octal format					
х	Hexadecimal format (lower case)					
X	Hexadecimal format (upper case)					
n	Same as 'd'. Except it uses current locale setting for number separator					
е	Exponential notation. (lowercase e)					

Python Program to Find the Sum of

Natural Numbers

Python Program to Find the Factors of a

Number





PYTHON PATTERN PROGRAM

*							
					1	P	1
*	*				121	PY	2.2
*	*	*			AND RESERVE TO SERVE	PYT	22
					12321	PYTH	333
*	*	*	*		1234321	PYTHO	4444
*	*	*	*	*	123454321	PYTHON	55555