

Aarya Vijay Arban

S11 - 07

Assignment –02: Strings and Operators

Code:

```
#Strings
```

```
name = "Aarya Arban"
```

```
for char in range(len(name)):
```

```
    print(name[char])
```

```
for char in name:
```

```
    print(char)
```

```
print("\n")
```

```
print(len(name))
```

```
string = "The best things in life are free!"
```

```
if("best" in string):
```

```
    print("'best' is present in the string")
```

```
else:
```

```
    print("It is not present")
```

```
#Slicing
```

```
str = "Python"
```

```
print(str[2:5])
```

```
print(str[0:])
```

```
print(str[-5:-2])
```

```
str1 = "Hello, World"
```

```
str2 = "  Hi World!  "
```

```
str3 = "hello everyone"
```

```
str4 = "Hello\tAll!"
```

```
print(str1.upper())
```

```
print(str1.lower())
```

```
print(str2.strip())
```

```
print(str1.split(","))
```

```
print(str2.replace("Hi","Hello"))
```

```
print(str3.capitalize())
```

```
print(str1.casefold())
```

```
print(str1.center(10,"*"))
```

```
print(str1.count("l"))
```

```
print(str1.encode())
```

```
print(str1.endswith("d"))
```

```
print(str4.expandtabs(10))
```

```
print(str2.find("Hi"))
```

```
name = "Aarya"
```

```
age = "19"
```

```
print("My name is {}, I am {} years old.".format(name,age))
```

```
print(str1.index(","))
```

```
values = {"name" : "Aarya","age" : "19"}
```

```
print("My name is {name} and I am {age} years old.".format_map(values))
```

```
print(str2.isalnum())  
print(str3.isalpha())  
print(str4.isascii())  
print(age.isdecimal())  
print(age.isdigit())
```

```
identifier = "my_var"  
print(identifier.isidentifier())
```

```
print(str3.islower())  
print(age.isnumeric())  
print(name.isprintable())
```

```
whitespace = " "  
print(whitespace.isspace())
```

```
title = "The Movie"  
print(title.istitle())
```

```
upper = "HI"  
print(upper.isupper())
```

```
list = ["This", "is", "a", "list"]  
separator = "  
print(separator.join(list))
```

```
print(str2.ljust(5))
```

```
print(upper.lower())
```

```
print(str2.lstrip())
```

```
translational_table = str.maketrans("aeiou","12345")
```

```
eg = "Example"
```

```
print(eg.translate(translational_table))
```

```
string = "My name is Aarya and I am 19 years old."
```

```
print(string.partition("and"))
```

```
print(title.rfind("e"))
```

```
print(title.rindex("e"))
```

```
print(str2.rjust(10))
```

```
print(title.rsplit(" "))
```

```
print(string.rpartition("and"))
```

```
print(str2.rstrip())
```

```
print(string.splitlines())
```

```
print(string.startswith("M"))
```

```
print(title.swapcase())
```

```
any_str = "aaRya ArbAN"
```

```
print(any_str.title())
```

```
print(eg.zfill(10))
```

#Operators

#1) Arithmetic

```
print("Arithmetic Operators")
```

```
x = 10
```

```
y = 8
```

```
print(x+y)
```

```
print(x-y)
```

```
print(x*y)
```

```
print(x/y)
```

```
print(x%y)
```

```
print(x**y)
```

```
print(x//y)
```

#2) Assignment

```
print("\n")
```

```
print("Assignment Operators")
```

```
x=8
```

```
print(x)
```

```
x+=2
```

```
print(x)
```

```
x-=2
```

```
print(x)
```

```
x*=3
```

```
print(x)
```

```
x/=3
```

```
print(x)
```

```
x//=3
```

```
print(x)
```

```
y=5
```

```
y**=3
```

```
print(y)
```

#3) Comparison

```
print("\n")
```

```
print("Comparison Operators")
```

```
x = 10
```

```
y = 8
```

```
print(x==y)
```

```
print(x!=y)
```

```
print(x>y)
```

```
print(x<y)
```

```
print(x>=y)
```

```
print(x<=y)
```

Output:

```
A
```

```
a
```

```
r
```

```
y
```

```
a
```

A

r

b

a

n

A

a

r

y

a

A

r

b

a

n

11

'best' is present in the string

tho

Python

yth

HELLO, WORLD

hello, world

Hi World!

['Hello', ' World']

Hello World!

Hello everyone

hello, world

Hello, World

3

b'Hello, World'

True

Hello All!

4

My name is Aarya, I am 19 years old.

5

My name is Aarya and I am 19 years old.

False

False

True

True

True

True

True

True

True

True

True

True

This is a list

Hi World!

hi

Hi World!

Ex1mpl2

('My name is Aarya ', 'and', ' I am 19 years old.')

8

8

Hi World!

['The', 'Movie']

('My name is Aarya ', 'and', ' I am 19 years old.')

Hi World!

['My name is Aarya and I am 19 years old.']

True

tHE mOVIE

Aarya Arban

000Example

Arithmetic Operators

18

2

80

1.25

2

100000000

1

Assignment Operators

8

10

8

24

8.0

2.0

125

Comparison Operators

False

True

True

False

True

False