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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("I"))
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) Comaprison
print("\n")
print("Comparison Operators")
x = 10
y = 8
print(x==y)
print(x!=y)
print(x>y)
print(x<y)</pre>
print(x>=y)
print(x<=y)</pre>
Output:
Α
а
r
У
a
```

Α

r

b

а

n

Α

a

r

У

а

Α

r

b

а

n

11

'best' is present in the string

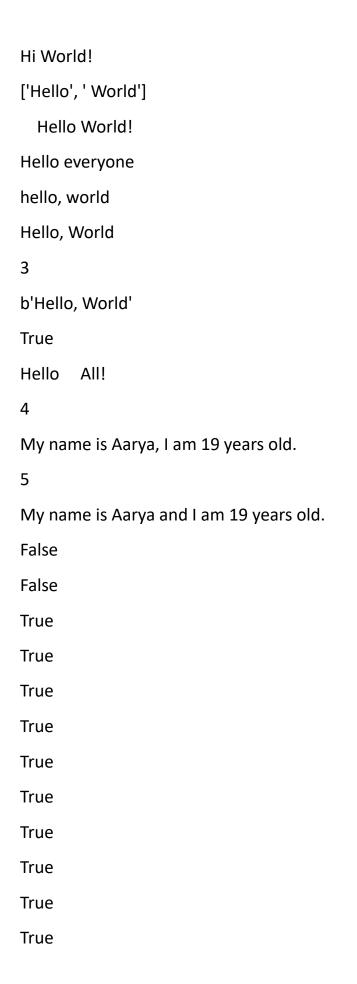
tho

Python

yth

HELLO, WORLD

hello, world



```
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