Assignment 2

Strings and Operators

Executable Code:

Operators:

```
#Arithmetic Operators
x = 5
y= 3

print(x + y)
print(x - y)
print(x * y)
print(x / y)
print(x ** y)
print(x // y)
print(x % y)

#Assignment operators

x+=5
print(x)

x-=5
print(x)

x*=5
print(x)

x/=5
print(x)

x%=5
print(x)

x//=5
print(x)

x**=5
print(x)

x<<=5
```

```
print(x)

x>>=5
print(x)

#Comparision Operators

print(x == y)
print(x != y)
print(x > y)
print(x < y)
print(x >= y)
print(x <= y)

#Identity Operators

print(x is y)
print(x is not y)

#Membership operators

list1 = [10,20,30,40,50]

if x not in list1:
    print("X is not in list")
else:
    print("X is in list")

#Ternary Operator
min = a if a<b else b
print(min)
```

Output:

8

2

15

1.6666666666666667

125

1

2

10

5

25

5.0

0.0

0.0

0.0

False

True

False

True

False

True

False

True

X is not in list

10

Strings:

```python
#String Functions

s1 = "hello WOrld"

x = s1.capitalize()
print(f"Converts first char to capital: {x}")

x = s1.casefold()
print(f"Converts string to lower case: {x}")

x = s1.center(0)
print(f"Returns centered string: {x}")

x = s1.encode()
print(f"Encoded String: {x}")

x = s1.count("l")
print(f"Counts occurence of string: {x}")

x = s1.endswith("d")
print(f"Checks end of string: {x}")

x = s1.expandtabs()
print(f"Sets tab size of string: {x}")

x = s1.find("d")
print(f"Finds index of string: {x}")

x = s1.format("d")
print(f"Checks end of string: {x}")

x = s1.index("d")
print(f"Checks index of a char of string: {x}")

x = s1.isalnum()
print(f"Returns true if string is alphanumeric: {x}")

x = s1.isalpha()
print(f"Returns true if string is alphabetic: {x}")

x = s1.isascii()
print(f"Returns true if string is ascii: {x}")

x = s1.isalnum()
print(f"Returns true if string is alphanumeric: {x}")
```

```
x = s1.isdecimal()
print(f"Returns true if string is decimal: {x}")

x = s1.isidentifier()
print(f"Returns true if string is a identifier: {x}")
```

Output:

Converts first char to capital: Hello world

Converts string to lower case: hello world

Returns centered string: hello WOrld

Encoded String: b'hello WOrld'

Counts occurence of string: 3

Checks end of string: True

Sets tab size of string: hello WOrld

Finds index of string: 10

Checks end of string: hello WOrld

Checks index of a char of string: 10

Returns true if string is alphanumeric: False

Returns true if string is alphabetic: False

Returns true if string is ascii: True

Returns true if string is alphanumeric: False

Returns true if string is decimal: False

Returns true if string is a identifier: False

Process finished with exit code 0