2_1_Operation

May 10, 2019

In [ ]:
```
print('hello world')
```

In [ ]:
```
number = 20162345
score = 90
python_score = 95
math1 = 80
student = 50

print(number)
print(score)
print(python_score)
print(math1)
print(student)
```

In [ ]:
```
a = 10; b = 20; c= 30
print(a, b, c)
```

In [ ]:
```
e = 'sogang'
type(e)
```

In [ ]:
```
f = [1,2,4,5,6]
type(f)
```

In [ ]:
```
g = (2,3,5)
type(g)
```

In [ ]:
```
i = 24
type(i)
```

In [ ]:
```
a = 2.15
type(a)
```

In [ ]:
```
h = {1,3,5,6}
type(h)
```

In [ ]:
```
d = {3:90, 5:87, 3:34}
type(d)
```

In [ ]:
```
a = 23
type(a)
```

```
In [ ]: isinstance(a, int)

In [ ]: a = int(3.5)
        b = int(3.3)
        c = int('34')

        print(a, b, c)

In [ ]: a = 124
        x = float(a)
        y = str(a)

        print(a, x, y)

In [ ]: type(y)

In [ ]: multiple = 9*9
        divide = 30/5
        power = 2**4
        remainder = 15%4

        print(multiple, divide, power, remainder)

In [ ]: text = '2015' + '1991'
        number = 2015 + 1991

        print(text)
        print(number)

In [ ]: five4 = 5*1
        five5 = 5*1.0

        print(five4)
        print(five5)

In [ ]: div1 = 6/5
        div2 = 6//5

        print(div1)
        print(div2)

In [ ]: a = 6
        b = 5

        print(a == b*(a//b) + (a%b))

In [ ]: print(int(5.0))
        print(float(5))
        print(5*1.0)
```

```
In [ ]: sum = 21 + 5
        multiply = 21* 5
        divide = 21/5
        remainder = 21%5
        power = 21**3

        print(sum, multiply, divide, remainder, power)

In [ ]: round(1.3)

In [ ]: round(2.5)

In [ ]: round(2.6)

In [ ]: import math
        type(math)

In [ ]: math.ceil(2.9)

In [ ]: math.floor(5.7)

In [ ]: a = 1
        a < 0

In [ ]: a > 0

In [ ]: b = True
        c = False
        print(b, c)

In [ ]: x = input('enter x: ')
        print(x)

In [ ]: type(x)

In [ ]: x = int(x)

In [ ]: type(x)

In [ ]: x = int(input('enter one integer :'))

In [ ]: type(100)

In [ ]: y = float(input('enter one float number :'))

In [ ]: type(y)

In [ ]: print('hello world ', end='')
        print('hello world ', end='')
        print('hello world')
```

```
In [ ]: 10+5
        20-13
        3*10
        100/8
        2**5
        30//7
        30%7

In [ ]: 2**3**2

In [ ]: (2**3)**2

In [ ]: abs(-3)

In [ ]: divmod(17, 4)

In [ ]: pow(2,5)

In [ ]: import math
        math.fabs(-3)

In [ ]: math.factorial(5)

In [ ]: math.pow(3,5)

In [ ]: math.sqrt(9)

In [ ]: math.trunc(10.8)

In [ ]: a = 1.5
        type(a)

In [ ]: isinstance(a, float)

In [ ]: b = 2e3
        a = 2e-03
        c = 2E2
        d = 2E-2
        e = 2e10
        f = 2e-10
        print(b)
        print(a)
        print(c)
        print(d)
        print(e)
        print(f)

In [ ]: x = 1; y = 2
        str1 = 'abc'; str2 = 'python'
        print(x == y)  # False
        print(x != y)   # True
        print(str1 == str2)   # False
        print(str2 == 'python')   # True
        print(str1 < str2)        # True
```

```
In [ ]: bool1 = True; bool2 = False; bool3 = True; bool4 = False
        print(bool1 and bool2)    # False
        print(bool1 and bool3)    # True
        print(bool2 or bool3)     # True
        print(bool2 or bool4)     # False
        print(not bool1)          # False
        print(not bool2)          # True
```