2ndseptember20230perators

September 20, 2023

1.numeric int float complex 2.string str 3.list 4.dict 5.set

```
[1]: x=10
```

```
[2]: x=1.34
```

```
[3]: x="shamnu"
```

```
[4]: s=['hi',4,3.14]
```

```
[7]: y={'name':'shamnu'}
```

```
[8]: h=(1,2,3,4,5)
```

```
[9]: type(y)
```

```
[9]: dict
```

```
[ ]: x=input()
```

     "hi"

```
[11]: x
```

```
[11]: '"hi"'
```

```
[12]: y=input()
```

     5

```
[13]: y
```

```
[13]: '5'
```

```
[15]: w=input("enter your name")
```

     enter your name shamnu

```
[16]: w
```

```
[16]: 'shamnu'
```

```
[19]: w=input("enter your name")
      print(x+w)
```

```
enter your name shamnu

"hi"shamnu
```

```
[20]: x=10
      y=20
      print(x+y)
```

```
30

x=int(input("enter any number ")) print(x)
```

```
[24]: print("pwskills")
```

```
pwskills
```

```
[25]: x="hi"
      y="pwskills"

      print(f"{x} {y}")
```

```
hi pwskills
```

```
[26]: print("pw")
```

```
pw
```

```
[30]: print("{1} and {0} and {2}".format("pw","skills","ineuron"))
```

```
skills and pw and ineuron
```

```
[1]: print("""8907562
     Hii!!
     $$Howareyou??
     10*10=100
     (12>10) and True
     I am here to learn"python
     """)
```

```
8907562
Hii!!
$$Howareyou??
10*10=100
```

```
(12>10) and True
I am here to learn"python
```

[2]:
```
print("""$
$ $
$ $ $
$ $ $ $
$ $ $ $ $
""")
```

```
$
$ $
$ $ $
$ $ $ $
$ $ $ $ $
```

[3]:
```
x=input('enter the string')
y=x
z="!"+x+"!"
print(z)
```

```
enter the string shamnu
```

```
!shamnu!
```

[4]:
```
x=input('enter the string')
y=x
z="!"+x+"!"
print(z)
```

```
enter the string cool
```

```
!cool!
```

[5]:
```
x=input('enter the string')
y=x
z="!"+x+"!"
print(z)
```

```
enter the string 1234567
```

```
!1234567!
```

operators addition mul

[6]:
```
a=10
b=20
```

```
[7]: a+b
```

```
[7]: 30
```

```
[8]: b-a
```

```
[8]: 10
```

```
[9]: a*b
```

```
[9]: 200
```

```
[10]: b/a
```

```
[10]: 2.0
```

```
[12]: b%a
```

```
[12]: 0
```

```
[13]: a=10
```

```
[14]: b=10
```

```
[21]: a==b#equality operator-compare equality of object
```

```
[21]: False
```

```
[17]: a is b #identity operator
```

```
[17]: True
```

```
[18]: a=20
```

```
[19]: b=30
```

```
[20]: a is b
```

```
[20]: False
```

```
[22]: a==b
```

```
[22]: False
```

```
[23]: id(a)
```

```
[23]: 140048149955408
```

```
[24]: id(b)
```

[24]: 140048149955728

```
[25]: a is b
```

[25]: False

```
[29]: a!=b
```

[29]: False

```
[30]: a==b
```

[30]: True

```
[31]: a=[1,2,3]
```

```
[32]: b=[1,2,3]
```

```
[33]: a==b
```

[33]: True

```
[34]: a is b
```

[34]: False

```
[35]: id(a)
```

[35]: 140048101374528

```
[36]: id(b)
```

[36]: 140048082767744

```
[37]: a==b
```

[37]: True

```
[38]: b=a
```

```
[39]: a is b
```

[39]: True

```python
[42]: x=int(input("enter an integer: "))
      y=3**35//x
      print(y)
```

enter an integer: 10

5003154509899970

```python
[41]: 2**2
```

[41]: 4

```python
[43]: a=10
```

```python
[44]: b=20
```

```python
[45]: a>b
```

[45]: False

```python
[46]: a<b
```

[46]: True

```python
[47]: 5%3
```

[47]: 2

#logical operator

```python
[49]: a=10
```

```python
[50]: b=4
```

```python
[51]: bin(a)
```

[51]: '0b1010'

```python
[52]: bin(b)
```

[52]: '0b100'

```python
[53]: a & b #AND operator
```

[53]: 0

```python
[54]: a|b #or operator
```

```
[54]: 14
```

```
[55]: a=10
```

```
[56]: ~a
```

```
[56]: -11
```

```
[57]: a^b
```

```
[57]: 14
```

```
[58]: a=10
```

```
[59]: b=4
```

```
[60]: bin(a)
```

```
[60]: '0b1010'
```

```
[61]: bin(b)
```

```
[61]: '0b100'
```

```
[62]: a^b
```

```
[62]: 14
```

```
[63]: a=10
```

```
[64]: a>>1
```

```
[64]: 5
```

```
[65]: a=10
```

```
[66]: a<<1
```

```
[66]: 20
```

```
[2]: a=10
```

```
[3]: ~a
```

```
[3]: -11
```

```
[4]: a=10
```

```
[5]: a=a+1
```

```
[6]: a
```

[6]: 11

```
[10]: a
```

[10]: 13

```
[11]: a+=1
```

```
[12]: a
```

[12]: 14

```
[ ]:
```