**Dynamic casting python**

1. 5 basic type
2. type()

```
1   a=True
2   type(a)
```

```
bool
```

```
1   a=10
2   b=20
3   c=30
```

```
1   a=b=c=100
```

```
1   a,b,c=10,20.23,True
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-15-02b868d612d4> in <cell line: 1>()
----> 1 a,b,c=10,20.23

ValueError: not enough values to unpack (expected 3, got 2)
```

SEARCH STACK OVERFLOW

```
1   print(a,b,c)
```

```
10 20.23 amar
```

```
1   a=10
2   b=20
3   t=a
4   a=b
5   b=t
6   print(a,b)
```

```
20 10
```

```
1 a=10
2 b=20
3 print("a:",a,"b:",b)
4 a,b=b,a
5 print("a:",a,"b:",b)
```

```
a: 10 b: 20
a: 20 b: 10
```

```
1 a=10
2 b=2*5
3 c=13-3
4 print("a:",id(a),"b:",id(b),"c:",id(c))
5 a=a-5
6 print("a:",id(a),"b:",id(b),"c:",id(c))
7 b=b/2
8 print("a:",id(a),"b:",id(b),"c:",id(c))
```

```
    a: 139663338646096 b: 139663338646096 c: 139663338646096
    a: 139663338645936 b: 139663338646096 c: 139663338646096
    a: 139663338645936 b: 139662080491024 c: 139663338646096
```

```
1 print('hello')
2 print("hello")
3 print('''print''')
4 print("""print""")
```

```
    File "<ipython-input-22-7d55f67b0aa9>", line 4
      print("""print""")

    ^
SyntaxError: EOF while scanning triple-quoted string literal
```

SEARCH STACK OVERFLOW

```
1 a=2134
2 print(a)
```

```
    2134
```

```
1 a=10
2 print("a is",a)
```

```
    a is 10
```

```
1 a=10
2 b=20
3 #a is 10 and 20 is b
4 print("a is",a,"and",b,"is b")
5 #10 is a and 20 is b
6 print(a,"is a and",b,"is b")
7 #10 value of a and b is 20
8 print(a,"value of a and b is",b)
```

```
    a is 10 and 20 is b
    10 is a and 20 is b
    10 value of a and b is 20
```

```
1 print("line 1",end='')
2 print(" 2nd line")
3 print("line 3 is this")
```

```
line 1 2nd line
line 3 is this
```

```python
1 a,b,c=10,20,30
2 print(a,b,c,sep="-----",end="\t")
3 print(a,b,c,sep="-----")
4 print(a,b,c,sep="-----")
```

```
10-----20-----30        10-----20-----30
10-----20-----30
```

```python
1 a=input("Enter Your name:")
```

```
Enter Your name:amar
```

```python
1 no=input("Enter a number:")
2 print(no,type(no))
```

```
Enter a number:123
123 <class 'str'>
```

```python
1 no=int(input("Enter a number:"))
2 print(no,type(no))
```

```
Enter a number:123
123 <class 'int'>
```

```python
1 no=bool(input("Enter a number:"))
2 print(no,type(no))
```

```
Enter a number:
False <class 'bool'>
```

```python
1 2**3
```

```
8
```

```python
1 5/2
```

```
2.5
```

```python
1 5//2
```

```
2
```