

Python

August 19, 2022

```
[4]: a = 5.5  
     print(a)
```

5.5

```
[16]: a='5'  
      print(a*3)  
      b= True  
      print(b)  
      print(type(b))  
      c="do's"  
      d='do\'s'  
      print(c)  
      print(d)  
      print(a,b,c,d)  
      print('a=',a,'b=',b,'c=',c)  
      print("a={},b={},c={}".format(a,b,c))
```

555

True

<class 'bool'>

do's

do's

5 True do's do's

a= 5 b= True c= do's

a=5,b=True,c=do's

```
[35]: a=float(input())  
      b=int(a)  
      c=float(b)  
      c=c-5  
      d=str(c)  
      e=bool(d)  
      print(a,b,c,d,e)  
      print(type(a),type(b),type(c),type(d),type(e))
```

17.5

```
17.5 17 12.0 12.0 True
<class 'float'> <class 'int'> <class 'float'> <class 'str'> <class 'bool'>
```

```
[37]: a=7
      b=4
      c=a/b
      d=a//b
      e=a%b
      f=a**b
      print(b,c,d,e,f)
```

```
4 1.75 1 3 2401
```

```
[43]: a=4
      print(type(a))
      a//=3
      print(a)
      print(type(a))
```

```
<class 'int'>
1
<class 'int'>
```

```
[2]: x="Hi Hari"
      "Hi" in x
      "Hi" not in x
```

```
[2]: False
```

```
[4]: x=['Hi','Hari']
      y=['Hi','Hari']
      print(x is y)
      z=x # z points to x
      print(x is z)
```

```
False
True
```

```
[22]: a=['hari',5,15,True,5,'hp',2.5]
      print(a)
      print(len(a))
      print(a[-7:-3])
      print(a[1:3])
      a.append(['csk','MI'])
      print(a)
      a.extend(['csk','milne'])
      print(a)
      a.insert(4,'sam')
```

```

a[2]='MI'
print(a)
a[2:4]=[5,6]
print(a)
del(a[0])
print(a)
a.remove(5)
print(a)
a.pop(4)
print(a)
a.clear()
print(a)
del a

```

```

['hari', 5, 15, True, 5, 'hp', 2.5]
7
['hari', 5, 15, True]
[5, 15]
['hari', 5, 15, True, 5, 'hp', 2.5, ['csk', 'MI']]
['hari', 5, 15, True, 5, 'hp', 2.5, ['csk', 'MI'], 'csk', 'milne']
['hari', 5, 'MI', True, 'sam', 5, 'hp', 2.5, ['csk', 'MI'], 'csk', 'milne']
['hari', 5, 5, 6, 'sam', 5, 'hp', 2.5, ['csk', 'MI'], 'csk', 'milne']
[5, 5, 6, 'sam', 5, 'hp', 2.5, ['csk', 'MI'], 'csk', 'milne']
[5, 6, 'sam', 5, 'hp', 2.5, ['csk', 'MI'], 'csk', 'milne']
[5, 6, 'sam', 5, 2.5, ['csk', 'MI'], 'csk', 'milne']
[]

```

```

[31]: t=(2,4,'hi',4.5,'bye')
print(t[3])
t=t+('csk','MI')
print(t)
print(t[3:5])
y=list(t)
print(y)
y[0]='Milne'
t=tuple(y)
print(t)

```

```

4.5
(2, 4, 'hi', 4.5, 'bye', 'csk', 'MI')
(4.5, 'bye')
[2, 4, 'hi', 4.5, 'bye', 'csk', 'MI']
('Milne', 4, 'hi', 4.5, 'bye', 'csk', 'MI')

```

```
[ ]:
```

```
[41]: s={2,4,'hi',4.5,'bye'}
      print(s)
      s.add(5)
      print(s)
      s.remove(4)
      print(s)
      s.add(5)
      print(s)
      s1={2,4,'csk','MI'}
      i=s&s1
      print(i)
      i=s.union(s1)
      print(i)
      y={0,1,False,'bool'}
      print(y)
```

```
{2, 4.5, 4, 'hi', 'bye'}
{2, 4.5, 4, 'hi', 5, 'bye'}
{2, 4.5, 'hi', 5, 'bye'}
{2, 4.5, 'hi', 5, 'bye'}
{2}
{2, 4.5, 'hi', 5, 4, 'csk', 'bye', 'MI'}
{0, 1, 'bool'}
```

```
[49]: student={'Name':'Ram','age':45,'country':'Norway'}
      print(student)
      print(student['Name'])
      print(student['age'])
      student['gender']='M'
      print(student)
      student['Name']='Hari'
      print(student)
      student.update({'hobby':'soccer','pincode':533033})
      print(student)
```

```
{'Name': 'Ram', 'age': 45, 'country': 'Norway'}
Ram
45
{'Name': 'Ram', 'age': 45, 'country': 'Norway', 'gender': 'M'}
{'Name': 'Hari', 'age': 45, 'country': 'Norway', 'gender': 'M'}
{'Name': 'Hari', 'age': 45, 'country': 'Norway', 'gender': 'M', 'hobby':
'soccer', 'pincode': 533033}
```