

```
In [8]: a=6  
b=7  
c=(a+b)/2  
print(c)
```

6.5

```
In [2]: first="john"  
middle="fitzgirlard"  
last="Kennedy"  
fullname=first+middle+last  
print(first)
```

john

```
In [14]: first=("john")  
middle=("fitzgirlard")  
last=("Kennedy")  
fullname=first+middle+last  
print(fullname)
```

johnfitzgirlardKennedy

```
In [15]: inventory=("paper" ,"staples" ,"pencils")  
print(inventory)
```

('paper', 'staples', 'pencils')

```
In [16]: monthsL=['Jan' , 'Feb' , 'Mar' , 'May']  
monthsT=['Jan' , 'Feb' , 'Mar' , 'May']  
monthsT.insert(3, "Apr")  
print(monthsT)
```

['Jan', 'Feb', 'Mar', 'Apr', 'May']

```
In [17]: monthsL=['Jan' , 'Feb' , 'Mar' , 'May']  
monthsT=['Jan' , 'Feb' , 'Mar' , 'May']  
monthsT.append("Jun")  
print(monthsT)
```

['Jan', 'Feb', 'Mar', 'May', 'Jun']

```
In [19]: monthsL=['Jan' , 'Feb' , 'Mar' , 'May']  
monthsT=['Jan' , 'Feb' , 'Mar' , 'May']  
monthsT.append("Jun")  
monthsL.append("Jun")  
print(monthsT)  
print(monthsL)
```

Out[19]: 'May'

```
In [20]: monthsL=['Jan' , 'Feb' , 'Mar' , 'May']
monthsT=['Jan' , 'Feb' , 'Mar' , 'May']
monthsT.pop()
monthsL.pop()
```

Out[20]: 'May'

```
In [21]: monthsL=['Jan' , 'Feb' , 'Mar' , 'May']
monthsT=['Jan' , 'Feb' , 'Mar' , 'May']
del monthsT[1]
del monthsL[1]
print (monthsT)
print (monthsL)

['Jan', 'Mar', 'May']
['Jan', 'Mar', 'May']
```

```
In [22]: monthsL=['Jan' , 'Feb' , 'Mar' , 'May']
monthsT=['Jan' , 'Feb' , 'Mar' , 'May']
monthsL.reverse()
monthsT.reverse()
print (monthsT)
print (monthsL)

['May', 'Mar', 'Feb', 'Jan']
['May', 'Mar', 'Feb', 'Jan']
```

```
In [23]: monthsL=['Jan' , 'Feb' , 'Mar' , 'May']
monthsT=['Jan' , 'Feb' , 'Mar' , 'May']
monthsL.sort()
monthsT.sort
print(monthsL)
print(monthsT)

['Feb', 'Jan', 'Mar', 'May']
['Jan', 'Feb', 'Mar', 'May']
```

```
In [24]: first=len("anachronistically")
second=len("counterintuitive")

if first > second:
    print("It is 1 greater")
else:
    print("same")
```

It is 1 greater

```
In [25]: chars="floccinaucinihilipilification"
find="e"
if find in chars:
    print("found")
else:
    print("not found")
```

not found

```
In [26]: sum=len("counterrevolution")
first=len("counter")
second=len("resolution")
tsum=first+second

if summ == tsum:
    print("Yes they are equal")
else:
    print("Not equal")
```

Yes they are equal

```
In [34]: from math import sin
length1=16
degrees1=75
radians1=(3.142*degrees1)/180
height1=length1*sin(radians1)
print(height1)
```

15.455515858074026

```
In [35]: from math import sin
length2=20
degrees2=0
radians2=(3.142*degrees2)/180
height2=length2*sin(radians2)
print(height2)
```

0.0

```
In [16]: print("middleIndex")
```

middleIndex

```
In [36]: from math import sin
length3=24
degrees3=45
radians3=(3.142*degrees3)/180
height3=length1*sin(radians3)
print(height3)
```

11.314860589953064

```
In [37]: from math import sin
length4=24
degrees4=85
radians4=(3.142*degrees4)/180
height4=length4*sin(radians4)
print(height4)
```

23.909074674431004

