



## 3.5 程序控制语句

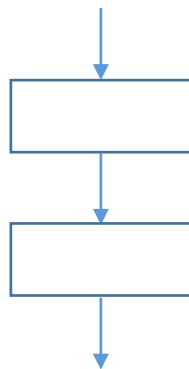


## 3.5.1 条件分支语句

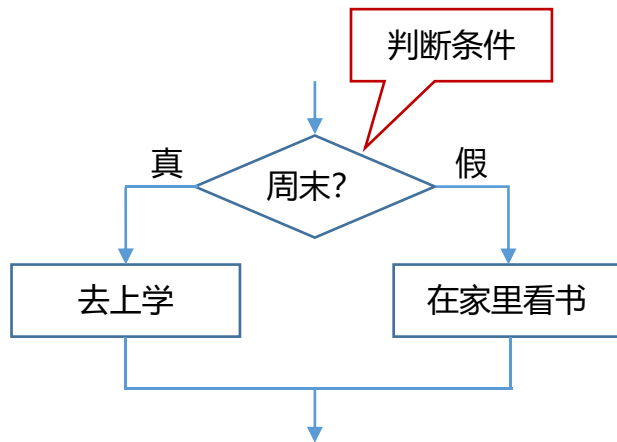
## ■ 程序控制语句：用来控制程序**执行的顺序**

□ **顺序结构**：各条语句一条一条**顺序执行**

□ **选择结构**：使程序根据**判断条件**而执行**不同的分支**



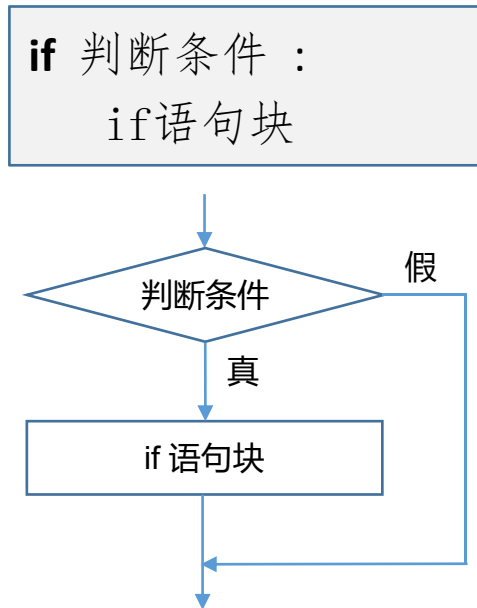
顺序结构



选择结构



## if 语句



```
x,y=3,5  
if x<y:  
    print("x is less than y.")  
    print("y is greater than x.")  
print("continue.....")
```

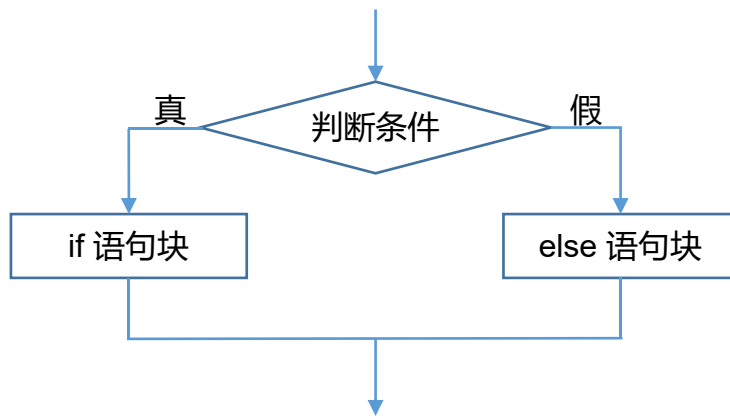
运行结果:

```
x is less than y.  
y is greater than x.  
continue.....
```



## if-else 语句

**if** 判断条件 :  
    if语句块  
**else**  
    else语句块



```
1 x=int(input("x:"))
2 y=int(input("y:"))
3 if x<y:
4     print("x is less than y.")
5 else:
6     print("x is greater than y, or x is equal to y .")
7 print("continue....")
```



### 3.5.1 条件分支语句

运行结果：

输入

x: 3

y: 5

输出

x is less than y.  
continue....

x: 3

y: 3

x is greater than y, or x is equal to y .  
continue....

x: 5

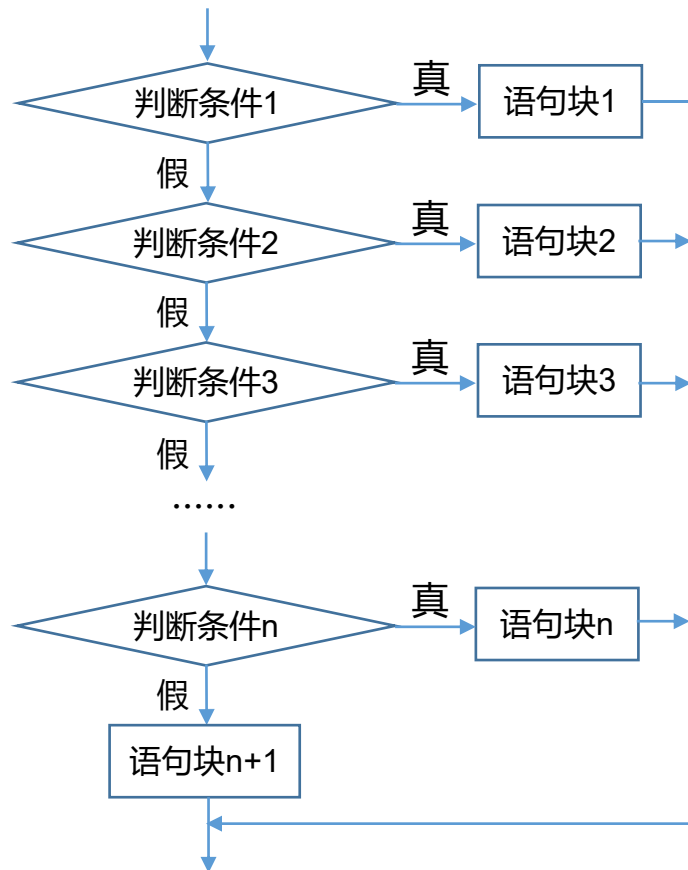
y: 3

x is greater than y, or x is equal to y .  
continue....



### ■ if-elif-else语句

```
if 判断条件1:  
    语句块1  
elif 判断条件2:  
    语句块2  
elif 判断条件3:  
    语句块3  
.....  
elif 判断条件n:  
    语句块n  
  
else:  
    语句块n+1
```



#### ■ if-elif-else语句

```
1 x=int(input("x:"))
2 y=int(input("y:"))
3 if x<y:
4     print("x is less than y.")
5 elif x>y:
6     print("x is greater than y.")
7 else:
8     print("x is equal to y.")
9 print("continue....")
```





## ■ 条件表达式

表达式1 if 判断条件 else 表达式2

条件为真的结果

条件为假的结果

```
a,b=3,4  
print(a if a>b else b)
```

真

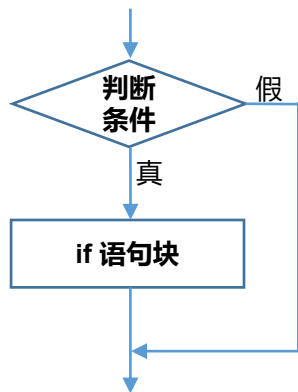
假



### 3.5.1 条件分支语句

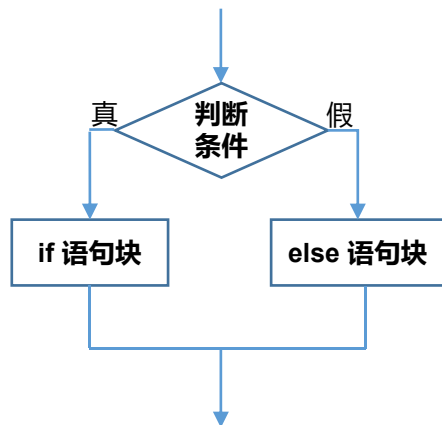
#### if 语句

```
if 判断条件 :  
    if语句块
```



#### if-else语句

```
if 判断条件 :  
    if语句块  
else  
    else语句块
```



#### if-elif-else语句

```
if 判断条件1:  
    语句块1  
elif 判断条件2:  
    语句块2  
elif 判断条件3:  
    语句块3  
.....  
elif 判断条件n:  
    语句块n  
  
else:  
    语句块n+1
```

