Decision Making (If - Else)

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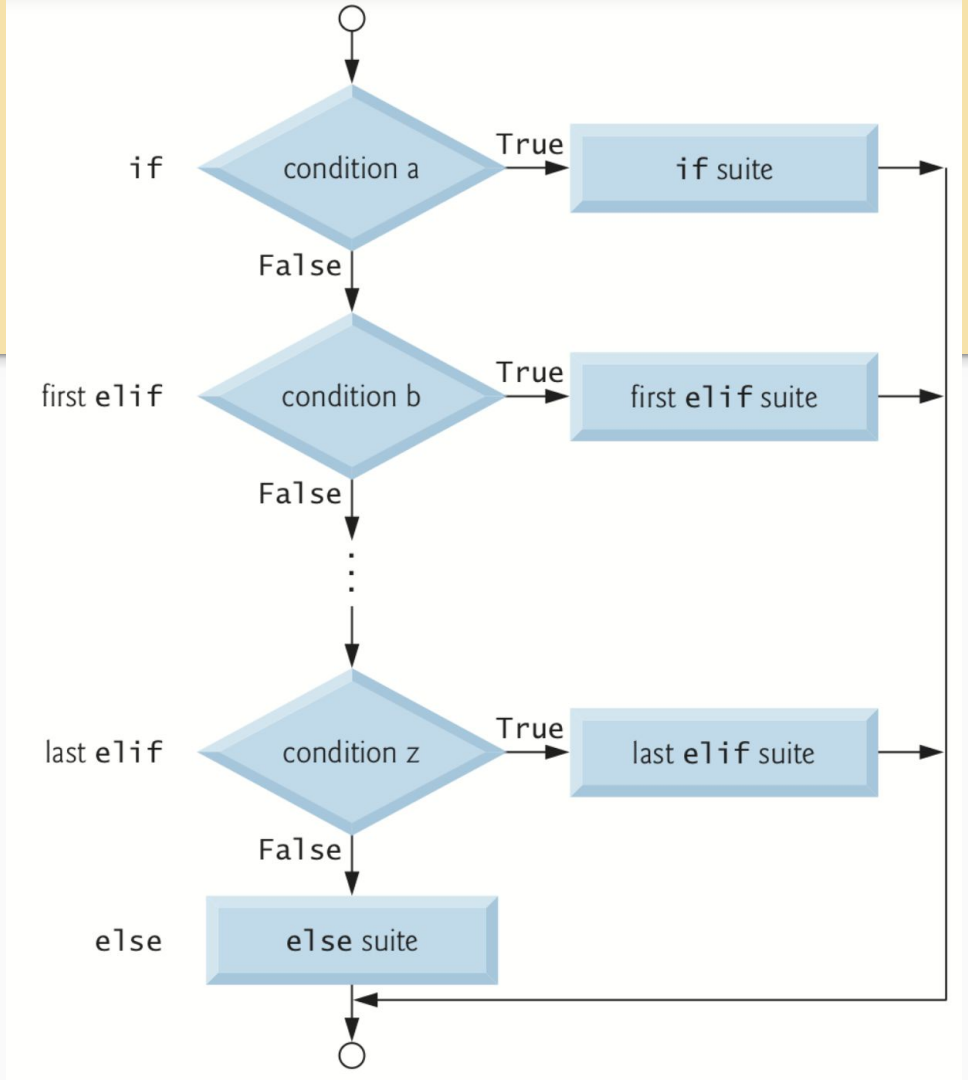
What Are If Statements

- Decision making - True, False
- If, Elif, Else
- Statement followed by a command
- Can be nested


if
condition a
True
if suite
False
first elif
condition b
True
first elif suite
False
last elif
condition z
True
last elif suite
False
else
else suite

Examples

```
grade=int(input("Enter the grade: "))
if (grade>=90):
    print('A')
elif (grade>=80):
    print('B')
elif(grade>=70):
    print('C')
elif(grade>=60):
    print('D')
else:
    print:('F')
```

```
number=int(input("Enter a number: "))
if (number%2==0):
    if (number>10):
        print("The number is even and more than 10")
    else:
        print("The number is even but less then 10")
else:
    print("The number is an odd number")
```

Applications

```
prompt='Guess a number between 1 to 10: '
active=True
while active:
    number=int(input(prompt))
    if number==6:
        print('You guessed correctly')
        break
    else:
        print('Try again')
```

```
Guess a number between 1 to 10: 4
Try again
Guess a number between 1 to 10: 5
Try again
Guess a number between 1 to 10: 6
You guessed correctly
```

```
def maximum(a,b,c):
    if a>b and a>c:
        largest=a
    elif b>c:
        largest=b
    else:
        largest=c
    return largest
maximum(34,123,311)
```

```
311
```