

DECISION MAKING IN PYTHON

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Decision Making

- Condition checking is an integral part of decision making in python.
- Conditions are simply Boolean expressions.
- The decision is depending on the result of the Boolean expression.
- The result of the Boolean expression is a Boolean value, which is the most important part of decision making in python.

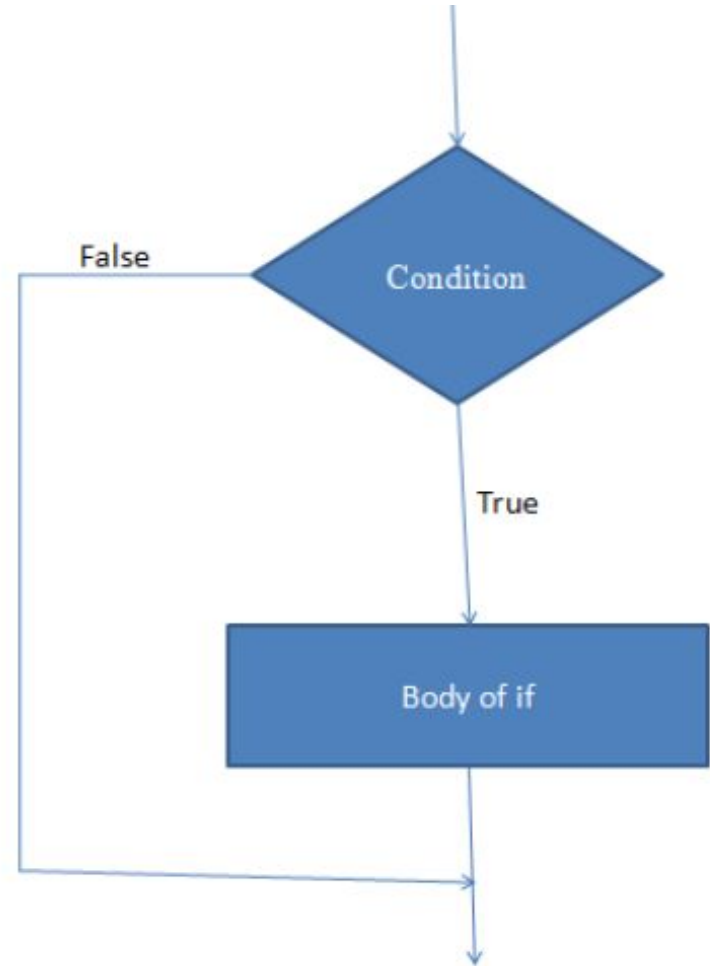
Types Of Decision making Instructions

Programming requires decision-making statements because they let programs decide what to do and run distinct code blocks according to predefined conditions.

Types Of decision making instruction:

1. If
2. If else
3. If elif else
4. Nested if else

1.If statement



Program

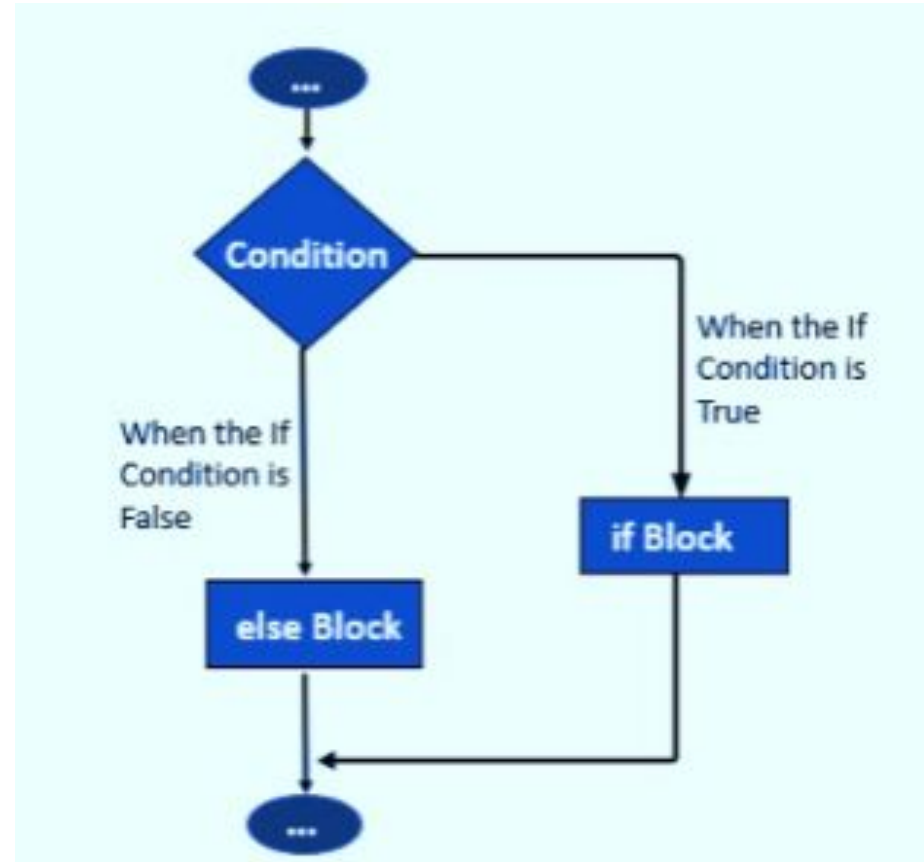
```
[1]: a=2  
      b=3  
      if a==b:  
          print("Both the numbers are equal")
```

```
[ ]:
```

```
[2]: a=2  
      b=2  
      if a==b:  
          print("Both the numbers are equal")
```

Both the numbers are equal

2.If Else



Program

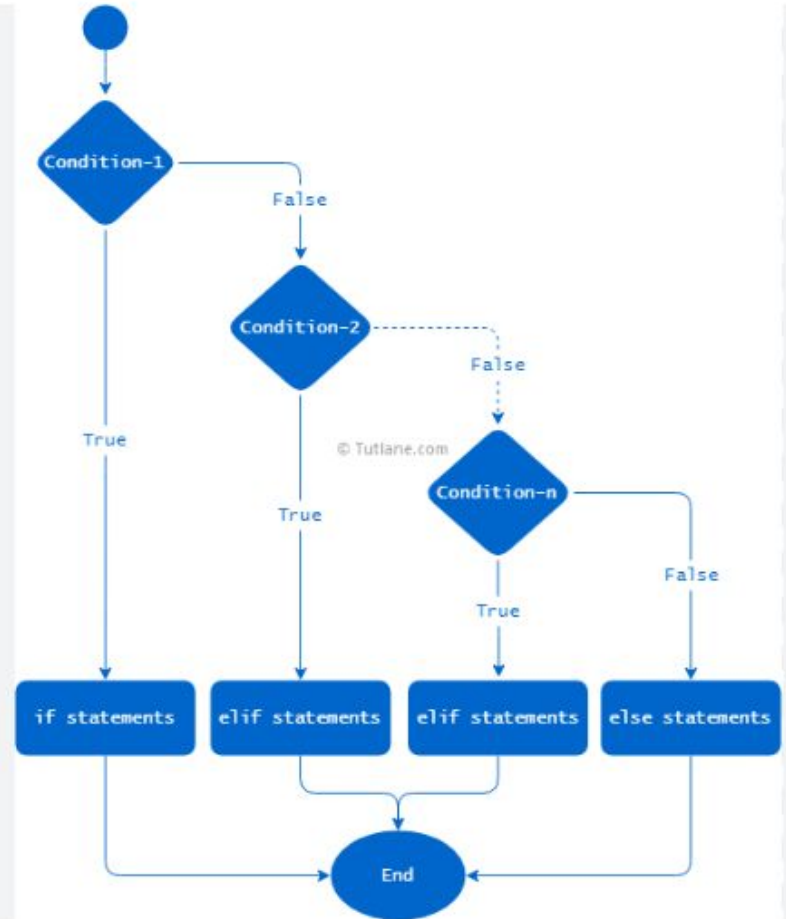
```
: a=2
  b=3
  if a==b:
      print("Both the numbers are equal")
  else:
      print("Both the numbers are not equal")
```

Both the numbers are not equal

```
[4]: a=3
      b=3
      if a==b:
          print("Both the numbers are equal")
      else:
          print("Both the numbers are not equal")
```

Both the numbers are equal

3.If Elif Else



Program

```
a=20
b=10
if a>b:
    print("first number is bigger")
elif b>a:
    print("Second number is bigger")
else:
    print("Both the numbers are not equal")
```

first number is bigger

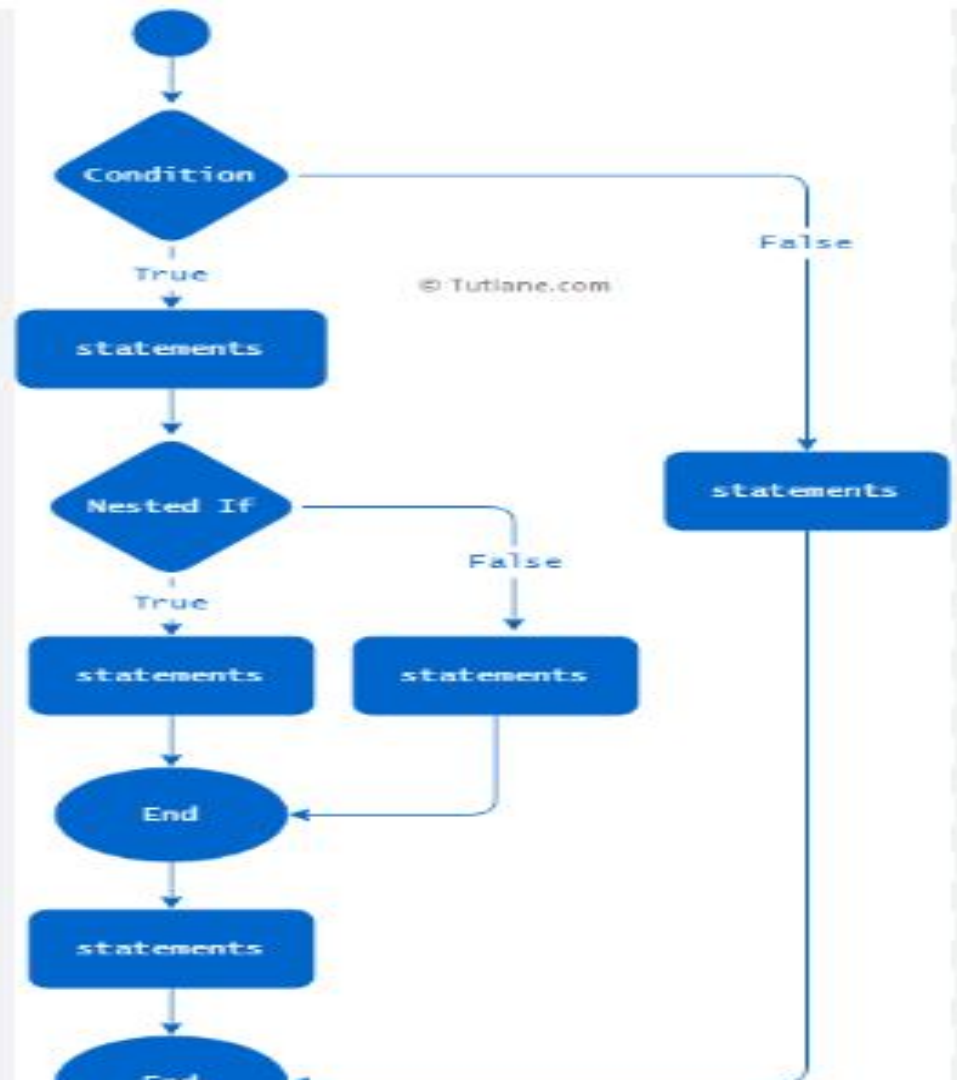
```
a=20
b=30
if a>b:
    print("first number is bigger")
elif b>a:
    print("Second number is bigger")
else:
    print("Both the numbers are not equal")
```

Second number is bigger

```
a=20
b=20
if a>b:
    print("first number is bigger")
elif b>a:
    print("Second number is bigger")
else:
    print("Both the numbers are not equal")
```

Both the numbers are not equal

4.Nested If Else



Program

```
a=50  
|  
if a%2==0:  
    print("Number is an even number")  
    if a%10==0:  
        print("Number is a multiple of ten")  
else:  
    print("Number is an odd number")
```

Number is an even number

Number is a multiple of ten

THANK YOU

