If else - shart operatorlari

```
if condition:
    statement          True branch
    statement   }----→ This is executed if the
    ...                condition is true

else:

False branch      {   statement
This is executed if the ←----{ statement
condition is false    {   ...

        following_statement
```
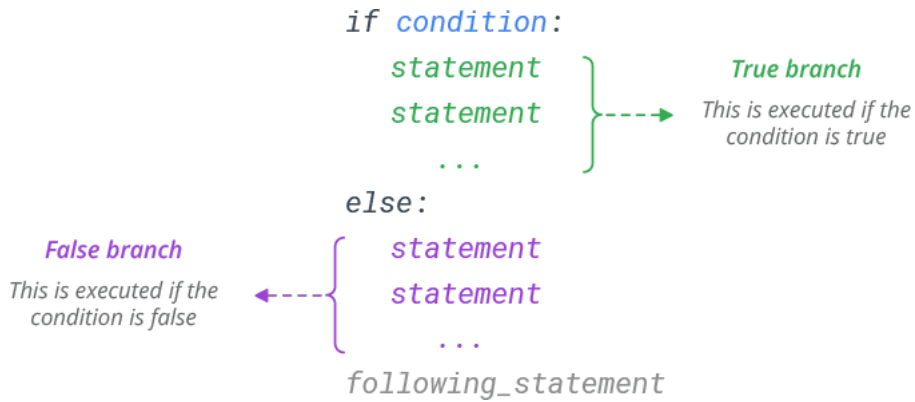
Kichkina sonni aniqlash

```python
a=int(input("A sonini kiriting: "))
b=int(input("B sonini kiriting: "))

# if - agar degan ma'noda
# else -  aks holda ma'noni anglatadi

if (a>b) : # true bo'lgan holda ishga tushadi
    print(f"{b} kichkina {a} dan.")
else:
    print(f"{a} kichkina {b} dan.")
```
```
12 kichkina 321 dan.
```

Musbat va manfiy sonnlarni aniqlash:

```python
# elif- aks holda agar degani

a=int(input("A sonini kiriting: "))

if (a==0): # true
    print(f"{a} nolga teng.")
elif (a>0):
    print(f"{a} - musbat son")
else:
    print(f"{a} - manfiy son")
```
```
23 - musbat son
```

```python
print("salom "*3) # string ni ko'paytirish natija - salom salom salom
```

Mantiqiy shartlar

```python
# and - va
# or - yoki
# not - inkor, emas
# not and - va emas
# not or - yoki emas

if not True:
    print("salom")
else:
    print("hayr")
```
```
hayr
```

Bir nechta shartlarni tekshirish

1st Condition Is True

```
score = 93

if score >= 90:
    print("Grade: A")

elif 80 <= score < 90:
    print("Grade: B")
elif 70 <= score < 80:
    print("Grade: C")

elif 60 <= score < 70:
    print("Grade: D")

else:
    print("Grade: F")

#code after if
```

4th Condition Is True

```
score = 60

if score >= 90:
    print("Grade: A")

elif 80 <= score < 90:
    print("Grade: B")
elif 70 <= score < 80:
    print("Grade: C")

elif 60 <= score < 70:
    print("Grade: D")

else:
    print("Grade: F")

#code after if
```

if Condition Is False

```
score = 32

if score >= 90:
    print("Grade: A")

elif 80 <= score < 90:
    print("Grade: B")
elif 70 <= score < 80:
    print("Grade: C")

elif 60 <= score < 70:
    print("Grade: D")

else:
    print("Grade: F")

#code after if
```

```
a=int(input("yoshingizni kiriting: "))
if (a>=18 and a<=40):
    print("voyaga yetgan")
elif (a>40 and a<70):
    print("qarilik yoshi")
elif (a>0 and a<7):
    print("bolalik")
elif(a>=7 and a<18):
    print("maktab yoshi")
else:
    print("bunday yosh mavjud emas !!!")

maktab yoshi
```

Mantiqiy masala

```
a=24
b=4
if (a%b==0 and (a%6==0 and a<b)):
    print("true")
else:
    print("false")

false
```