Shart operatori

Reja:

- if

- if … else

- if … else if … else

- ternary operatori

- Amaliy mashqlar

if

```
if (condition) {
  // codition=true bo'lganda bajariluvchi block
}
```
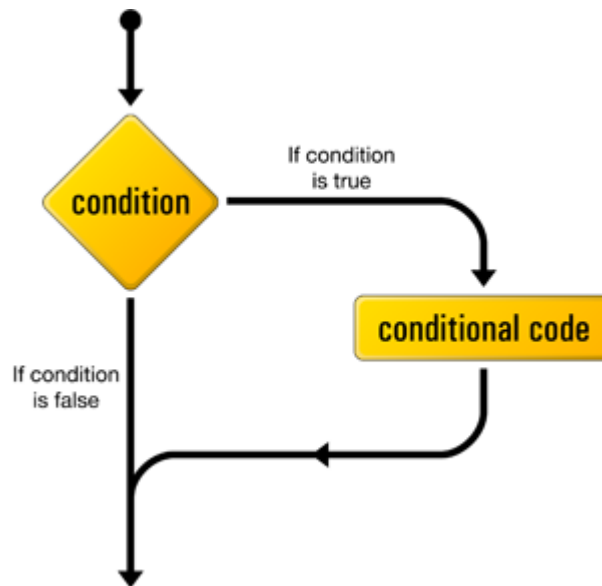
if

Condition is true

```
int number = 5;

if (number > 0) {
    // code
}

// code after if
```

Condition is false

```
int number = 5;

if (number < 0) {
      // code
}

// code after if
```

if

```cpp
int x = 20;
int y = 18;
if (x > y) {
  cout << "x y dan katta";
}
```

if-else

```
if (condition) {
  // codition=true bo'lganda bajariluvchi block
}
else {
  // codition=false bo'lganda bajariluvchi block
}
```
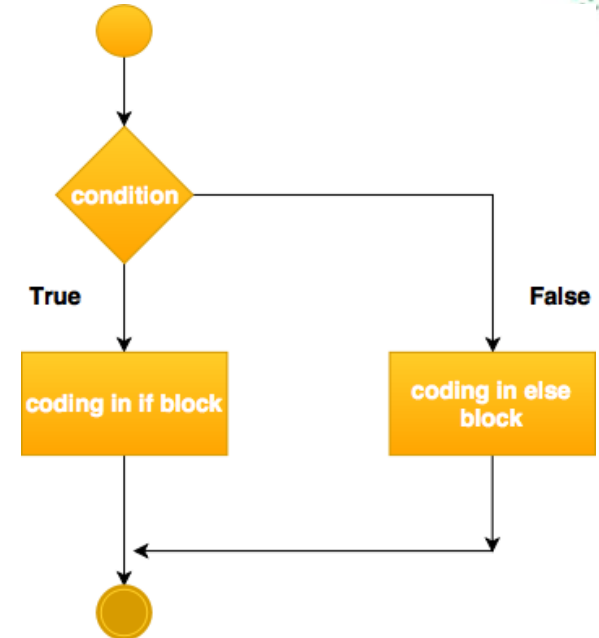
if-else

Condition is true

```
int number = 5;

if (number > 0) {
    // code
}
else {
    // code
}

// code after if...else
```

Condition is false

```
int number = 5;

if (number < 0) {
    // code
}
else {
    // code
}

// code after if...else
```
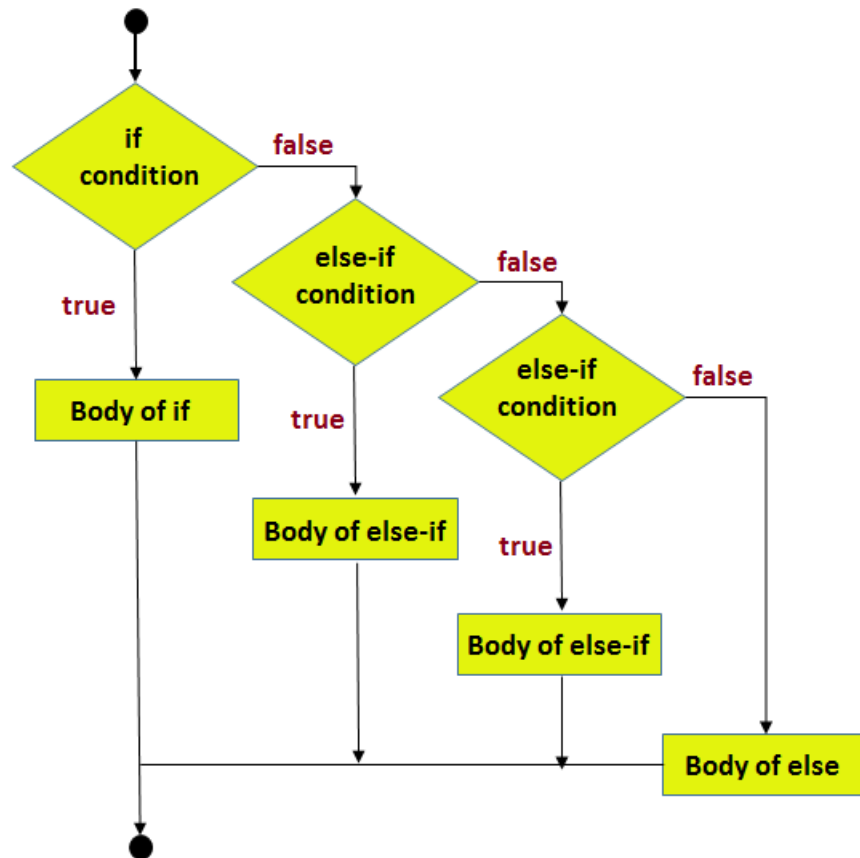
if-else

```
int time = 20;

if (time < 18) {
  cout << "Good day.";
}
else {
  cout << "Good evening.";
}

// Natija: "Good evening."
```

if-else-if

```
if (condition1) {
  // codition1=true bo'lganda bajariluvchi block
}
else if (condition2) {
  // codition1=false va codition2=true bo'lganda bajariluvchi block
}
else {
  // codition1=false va codition2=false bo'lganda bajariluvchi block
}
```

if-else-if

if-else-if

1st Condition is true

```
int number = 2;
if (number > 0) {
    // code
}
else if (number == 0){
    // code
}
else {
    //code
}

//code after if
```
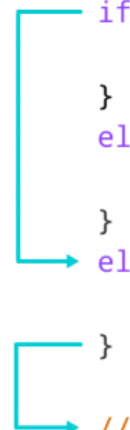
2nd Condition is true

```
int number = 0;
if (number > 0) {
    // code
}
else if (number == 0){
    // code
}
else {
    //code
}

//code after if
```

All Conditions are false

```
int number = -2;
if (number > 0) {
    // code
}
else if (number == 0){
    // code
}
else {
    //code
}

//code after if
```

if-else-if

```cpp
int time = 22;

if (time < 10) {
  cout << "Good morning.";
}
else if (time < 20) {
  cout << "Good day.";
}
else {
  cout << "Good evening.";
}

// Natija: "Good evening."
```

ternary operator

Sintaksis:

```
variable = (condition) ? expressionTrue : expressionFalse;
```

ternary - ?:

```cpp
int time = 20;
string result = (time < 18) ? "Good day." : "Good evening.";
cout << result;

// Natija: "Good evening."
```

Amaliy mashqlar

Ikkita sonning kattasini toping.

Uchta sonning kattasini toping.

Berilgan 3 ta sonni o'sish tartibida chiqaring.

Qiymati [-999; 999] oraliqda yotuvchi butun son berilgan. Son qiymatiga mos ravishda *"ikki xonali manfiy son"*, *"nol soni"*, *"uch xonali musbat son"* kabi satrlarni ekranga chiqaring.

Qiymati [1; 9999] bo'lgan x butun soni berilgan. Bu sonning qiymatiga mos ravishda quyidagi satrlarni chop eting: ”to'rt xonali juft son”, “ikki xonali toq son” va hokazo.

Foydalanuvchi tomonidan kiritilgan yilning kabisa yili yoki kabisa yili emasligini aniqlang.

Kabisa yil deb 4 ga karrali yillarga aytiladi. Lekin 100 ga karrali yillar ichida faqat 400 ga karrali bo'lganlari kabisa yil hisoblanadi. Masalan 300, 1300 va 1900 kabisa yili emas 1200 va 2000 kabisa yili.

Semestr davomida talaba to'plagan reyting ballga mos ravishda uning o'zlashtirishi haqida xabar chiqaring:

```
00-55  -> 2-qoniqarsiz
56-70  -> 3-qoniqarli
71-85  -> 4-yaxshi
86-100 -> 5-a'lo
```

Elektromobilning 100 km masofani bosib o'tish uchun akkumlatoridagi to'liq quvvatning 40 foizini sarflaydi. Ayni paytda uning quvvati (**energy**) K foiz qolgan. Haydovchi D (**distance**) km masofaga borishi uchun quvvat yetarli yoki yetarli emasligini aniqlang. Agar bor quvvat yetarli bo'lmasa, yana necha foiz quvvat kerakligi (**required power**) ni aniqlang. Bunda K va D foydalanuvchi tomonidan kiritiladi.

Ishchining oylik maoshi (**salary**) va o'rnatilgan tartibdagi eng kam oylik ish haqi (**minimum wage**) berilgan. Quyidagilar asosida ishchidan olinadigan bir oylik daromad solig'ini hisoblang.

1) Agar **salary <= 5*minimumWage** bo'lsa, 9 foiz;

2) Agar **salary > 5*minimumWage** va **salary <= 10*minimumWage** bo'lsa, 16 foiz;

3) Agar **salary > 10*minimumWage** bo'lsa, 23 foiz.

E`tiboringiz uchun rahmat!