DECISION CONTROL STATEMENTS

① if

② if .. else ✓

③ if .. else if .. else ✓

④ nested if

⑤ switch

⑥ ternary op

⑦ goto

Syntax of Using "if" Statement

```
void main( )
{
    ____
    ____
    ____

    if ( test cond )     T
    {
        ____
        ____
    }
    ____
}
```

O.S.
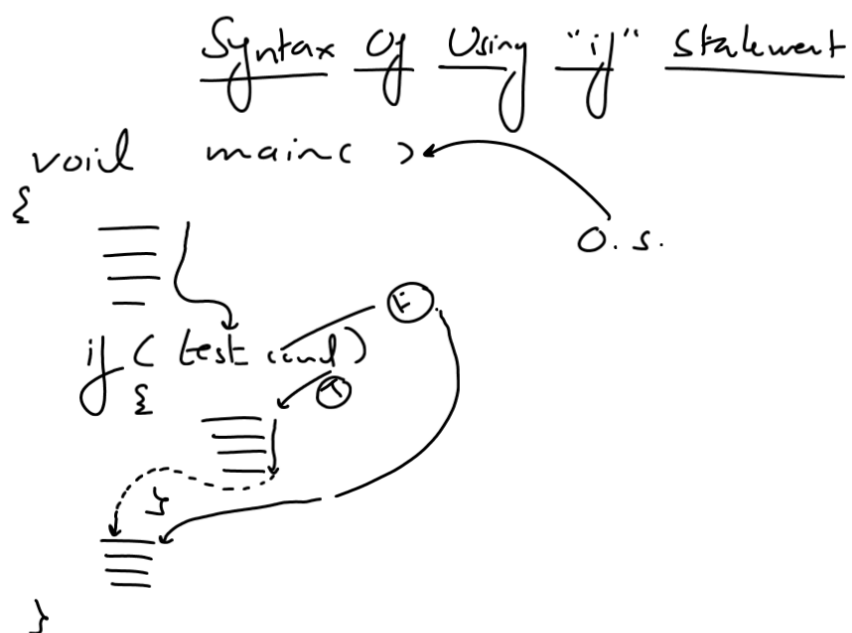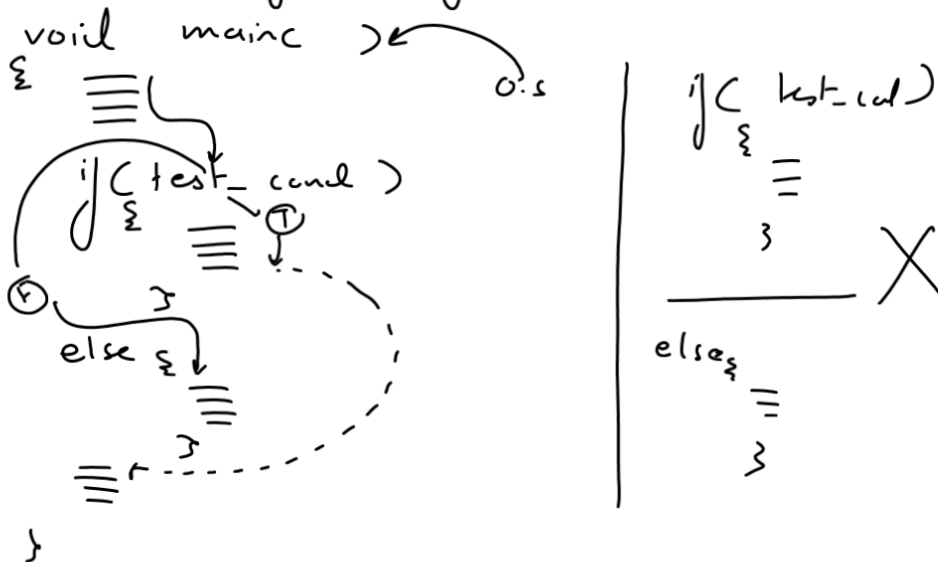
WAP to acccpt an integer from the user and check whether it is positive or negative.
Assume that the user will not input 0

```
| S |
|___|
  a
```

```c
#include <stdio.h>
#include <conio.h>
void main()
{
    int a;
    clrscr();
    printf("Enter an int:");
    scanf("%d",&a);

    if(a>0)
    {
        printf("Positive Number"); ✓
    }
    if(a<0)
    {
        printf("Negative Number");
    }
    getch();
}
```

Syntax of "if - else"

```
void mainc )←

      ≡(
   i|C test_ cond )
   d| ≡
   ⑤      ≡ ⑦
   ↵      ≡
   else ≡↓
        ≡
        ↵ 3
      ≡
}
```

```
O.s

if( test_cal)
d ≡
    ≡
    3
_____ X
elses
    ≡
    3
```

Previous Code Using "if -else"

```
-5
a
```

```c
#include <stdio.h>
#include <conio.h>
void main()
{
    int a;
    clrscr();
    printf("Enter an int:");
    scanf("%d",&a);
```

```c
if(a>0)
{
    printf("Positive Number");  ✓
}
else
{
    printf("Negative Number");
}
getch();
}
```

```c
if(a>0)
{
    printf("Positive Number");  ✓
}
if(a<0)
{
    printf("Negative Number");
}
if(a==0)
{
    printf("Num is zero");
}
getch();
```

```
void main )
{
    ===
    if( test_cond )
    {
        ===
        ...
    }
    else if( test_cond )
    {
        ===...
    }
    else {
        ===
        ...
    }
}
```

a.s.

Final Version Of Previous Code

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int a;
    clrscr();
    printf("Enter an int:");
    scanf("%d",&a);
```

```
if(a>0)
{
    printf("Positive Number"); ✓
}
else if(a<0)
{
    printf("Negative Number");
}
else
{
    printf("Num is zero");\
}
getch();
}
```