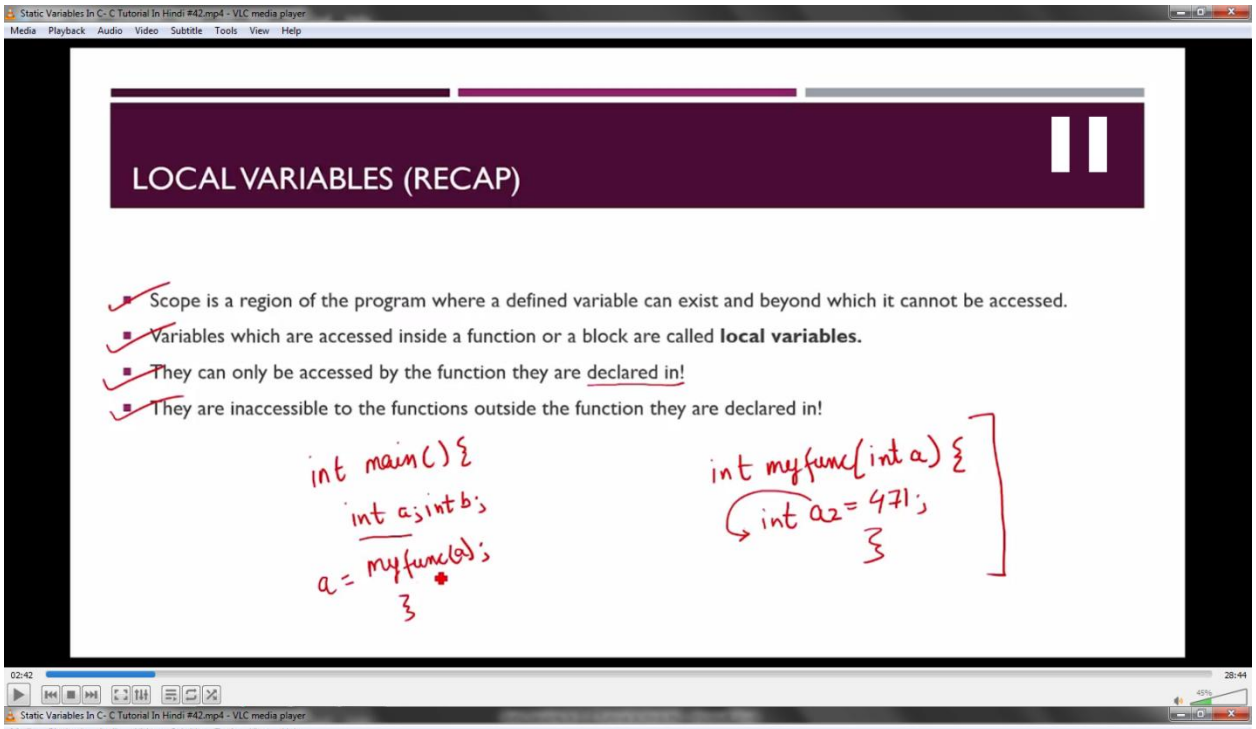
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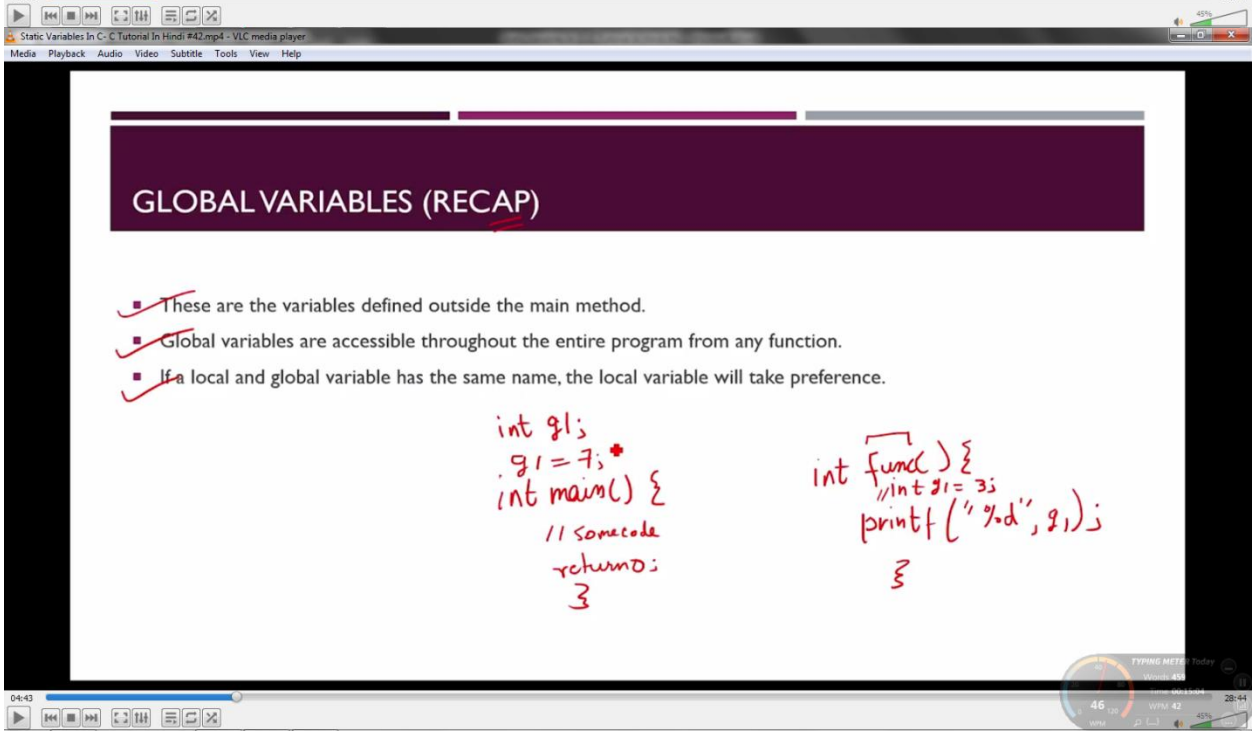
LOCAL VARIABLES (RECAP)
Scope is a region of the program where a defined variable can exist and beyond which it cannot be accessed.
Variables which are accessed inside a function or a block are called local variables.
They can only be accessed by the function they are declared in!
They are inaccessible to the functions outside the function they are declared in!
int main(){
int a;int b;
a = myfunc(a);
}
int myfunc(int a) {
int a2 = 471;
}
02:42
28:44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GLOBAL VARIABLES (RECAP)
These are the variables defined outside the main method.
Global variables are accessible throughout the entire program from any function.
If a local and global variable has the same name, the local variable will take preference.
int g1;
g1 = 7;
int main() {
// somecode
return 0;
}
int func() {
//int g1 = 3;
printf("%d", g1);
}
04:43
28:44

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FORMAL ARGUMENTS

- These variables are treated as local variables within a function.
- These variables take precedence over global variables.

```c
#include <stdio.h>

int factorial(int number){
      if (number == 1 || number == 0){
            return 1;
      }
      else{
            return (number * factorial(number - 1));
      }
}
int main(){
      int num;
      printf("Enter the number you want the factorial of\n");
      scanf("%d", &num);
      printf("The factorial of %d is %d\n", num, factorial(num));
      return 0;
}
```

06:21 / 28:44

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STATIC VARIABLES IN C

static data_type name = value;
static int harry = 7;

- Static variables are variables which have a property of preserving their values even when they go out of scope.
- They preserve their value from the previous scope and are not initialized again.
- Static variable remains in memory throughout the span of the program.
- Static variables are initialized to 0 if not initialized explicitly.
- In C, static variables can only be initialized using constant literals.

```
func1 () {
  [static int a=5;
   a++;]
  return a;
}
main () {
  a = func1()
  printf("%d", a); // 6
  a = func1()
  printf a // 7
```

// static int b = func1();
b = 5;

12:29 / 28:44