

7. Best Basic Practices and Style Guidelines

7.1 Naming Conventions

- **Variables:** Use descriptive names (`student_count`, not `sc`)
- **Constants:** Use uppercase (`MAX_SIZE`, `PI`)
- **Functions (we will learn more about this in the next module):** Use verb-noun pattern (`calculate_area`, `print_result`)

7.2 Code Organization

```
#include <stdio.h>           // System headers
#include <stdlib.h>

#define MAX_SIZE 100        // Constants

// Function prototypes (We will learn more about this in the next module)
int add(int a, int b);
void print_result(int result);

int main() {
    // Main program logic
    return 0;
}

// Function definitions (We will learn more about this in the next module)
int add(int a, int b) {
    return a + b;
}
```

7.3 Error Handling

Input Validation:

```
int num;
printf("Enter a positive number: ");
scanf("%d", &num)

if (num < 0) {
    printf("Invalid input!\n");
}
```

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