# Assignment 5

**Q1. Define the term "programming principles." Discuss the importance of following programming guidelines when writing code.**

**Q2. Discuss the role of comments, naming conventions, and indentation in programming practices. Why are they important for team-based development?**

**Q3. Define unit testing and explain how it applies to procedural units and classes. Why is it critical in software development?**

**Q4. What are software metrics? Discuss their role in evaluating the quality of software.**

**Q5. Explain Cyclomatic Complexity and its significance in understanding code complexity. Provide a simple code example and calculate its Cyclomatic Complexity.**

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**Q.7 Find out the cyclomatic complexity and effort in the given program.**

```c
#include <stdio.h>

int main() {

int a, b, sum = 0;

printf("Enter two integers: ");

scanf("%d %d", &a, &b);

sum = a + b;

printf("Sum: %d", sum);

return 0;

}
```