



Cavalier Institute - <https://cavalierinstitutions.com>

Topic: Programming in C sharp

Total Marks : 25

Section A: Conceptual Questions

(Answer any 2 questions. Each question carries 2 marks.)

1. What is a variable in C#?
2. Explain the difference between an **int** and a **double** in C#.
3. What is the purpose of the **if** statement in C#?
4. What is a method in C#? Give an example of how to create a simple method.

Section B: Application Questions

(Answer any 1 question. This question carries 6 marks.)

1. Write a simple C# program that asks the user for their age and then displays a message saying whether they are a teenager (age 13-19) or not.
2. Write a C# program that creates an array of 5 integers and prints each value to the console.

Section C: Analysis and Understanding Questions

(Answer any 1 question. This question carries 4 marks.)

1. What does the `Console.ReadLine()` method do in C#?
2. What will the following code output? Explain why.

```
int x = 5;
```

```
int y = 10;
```

```
int result = x + y;
```

```
Console.WriteLine(result);
```

Section D: Skill Development / Case Study

(Answer 1 question. This question carries 6 marks.)

1. **Case Study: Calculator Program**

Write a simple C# program that acts like a basic calculator. The program should:

- Ask the user to input two numbers.
- Then, ask the user to choose an operation: addition, subtraction, multiplication, or division.
- The program should then calculate and display the result.

2. **Hint:** Use `if` or `switch` statements to choose the operation.