

| Progam 01 | |
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| 1. Demonstration of C++ Programs to Implement Various Control Structures. | |
| a. If statement | |
| Input | Output |
| <pre>#include <iostream> using namespace std; int main() { int x = 5; if (x > 0) { cout << "x is positive" << endl; } else if (x < 0) { cout << "x is negative" << endl; } else { cout << "x is zero" << endl; } return 0; }</pre> | x is positive |
| b. Switch case statement and do while loop | |
| Input | Output |
| <pre>#include <iostream> using namespace std; int main() { char choice; do { cout << "Enter a choice (a, b, c): "; cin >> choice; switch (choice) { case 'a': cout << "You chose option a" << endl; break; case 'b': cout << "You chose option b" << endl; break; case 'c': cout << "You chose option c" << endl; break; default: cout << "Invalid choice. Try again." << endl; } } while (choice != 'a' && choice != 'b' && choice != 'c'); return 0; }</pre> | Enter a choice (a, b, c): b You chose option b |
| c. For loop d. While loop | |
| Input | Output |
| <pre>#include <iostream> using namespace std; int main() { int sum = 0; for (int i = 1; i <= 10; i++) { sum += i; } cout << "The sum of the numbers 1 to 10 is " << sum << endl; return 0; }</pre> | The sum of the numbers 1 to 10 is 55 |