**Program 1: Reverse a Positive Integer**

#include <iostream>

using namespace std;

// Function to reverse an integer

int reverse(int num) {

int reversed = 0;

while (num > 0) {

int digit = num % 10;

reversed = reversed \* 10 + digit;

num /= 10;

}

return reversed;

}

int main() {

int N;

cout << "Enter a positive integer: ";

cin >> N;

int reversed = reverse(N);

cout << "Reverse = " << reversed << endl;

return 0;

}

**Output Snip:**

**Program 2: Find Prime Numbers Between N and M**

#include <iostream>

using namespace std;

// Function to check if a number is prime

bool isPrime(int num) {

if (num <= 1) return false;

if (num <= 3) return true;

if (num % 2 == 0 || num % 3 == 0) return false;

for (int i = 5; i \* i <= num; i += 6) {

if (num % i == 0 || num % (i + 2) == 0) return false;

}

return true;

}

int main() {

int N, M;

cout << "Enter two positive integers N and M: ";

cin >> N >> M;

cout << "Prime Numbers between " << N << " and " << M << ": ";

for (int i = N; i <= M; ++i) {

if (isPrime(i)) {

cout << i << " ";

}

}

cout << endl;

return 0;

}

**Output Snip:**

**Program 3: Check if a Number is Palindrome**

#include <iostream>

using namespace std;

// Function to reverse an integer

int reverse(int num) {

int reversed = 0;

int original = num;

while (num > 0) {

int digit = num % 10;

reversed = reversed \* 10 + digit;

num /= 10;

}

return reversed;

}

int main() {

int N;

cout << "Enter a positive integer: ";

cin >> N;

int reversed = reverse(N);

if (reversed == N) {

cout << "A palindrome." << endl;

} else {

cout << "Not a palindrome." << endl;

}

return 0;

}

**Output Snip:**