

```

#include <iostream>

using namespace std;

bool checkPrime(int n);

int main() {
    int n, i;
    bool flag = false;

    cout << "Enter a positive integer: ";
    cin >> n;

    for(i = 2; i <= n/2; ++i) {
        if (checkPrime(i)) {
            if (checkPrime(n - i)) {
                cout << n << " = " << i << " + " << n-i << endl;
                flag = true;
            }
        }
    }

    if (!flag)
        cout << n << " can't be expressed as sum of two prime numbers.";

    return 0;
}

bool checkPrime(int n)
{
    int i;
    bool isPrime = true;

```

```
if (n == 0 || n == 1) {  
    isPrime = false;  
}  
else {  
    for(i = 2; i <= n/2; ++i) {  
        if(n % i == 0) {  
            isPrime = false;  
            break;  
        }  
    }  
}  
  
return isPrime;  
}
```

OUTPUT:

Enter a positive integer: 34

34 = 3 + 31

34 = 5 + 29

34 = 11 + 23

34 = 17 + 17

...Program finished with exit code 0

Press ENTER to exit console.