

```

1  #include<iostream>
2  using namespace std;
3
4  bool checkPrime(int n);
5
6  int main() {
7      int n, i;
8      bool flag = false;
9
10     cout << "Enter a positive integer: ";
11     cin >> n;
12
13     for(i = 2; i <= n/2; ++i) {
14         if (checkPrime(i)) {
15             if (checkPrime(n - i)) {
16                 cout << n << " = " << i << " + " << n-i << endl;
17                 flag = true;
18             }
19         }
20     }
21
22     if (!flag)
23         cout << n << " can't be expressed as sum of two prime numbers.";
24
25     return 0;
26 }
27
28 // Check prime number
29 bool checkPrime(int n) {
30     int i;
31     bool isPrime = true;
32

```

```

20 }
21
22 if (!flag)
23     cout << n << " can't be expressed as sum of two prime numbers.";
24
25 return 0;
26 }
27
28 // Check prime number
29 bool checkPrime(int n) {
30     int i;
31     bool isPrime = true;
32
33     // 0 and 1 are not prime numbers
34     if (n == 0 || n == 1) {
35         isPrime = false;
36     }
37     else {
38         for(i = 2; i <= n/2; ++i) {
39             if(n % i == 0) {
40                 isPrime = false;
41                 break;
42             }
43         }
44     }
45
46     return isPrime;
47 }
48
49
50

```

```
C:\Users\gdhiv\OneDrive\Documents\parameters.exe
Enter a positive integer: 34
34 = 3 + 31
34 = 5 + 29
34 = 11 + 23
34 = 17 + 17

Process returned 0 (0x0) execution time : 8.947 s
Press any key to continue.
```