WAP to check whether a number can be expressed as sum of two prime numbers

**Code:**

#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;

}

// Check prime number

bool checkPrime(int n)

{

int i;

bool isPrime = true;

for(i = 2; i <= n/2; ++i)

{

if(n % i == 0)

{

isPrime = false;

break;

}

}

return isPrime;

}

**Output:**

