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// Day 22 coding Statement : Write a program to express a number as a sum of two
prime numbers
// Description: Get a number as input from the user and express that number as
sum of two prime numbers.
// Output: 4 can be expressed as sum of 2 and 2
#include <iostream>
using namespace std;
bool check_prime(int n);
int main() {
  int n, i;
  bool flag = false;
  cout << "Enter an integer: ";</pre>
  cin >> n;
  for(i = 2; i <= n/2; ++i) {
    if (check_prime(i)) {
      if (check_prime(n - i)) {
        cout << n << " can be expressed as sum of " << i << " and " << n-i <<
end1;
        flag = true;
  if (!flag)
    cout << n << " can't be expressed as sum of two prime numbers.";</pre>
  return 0;
bool check_prime(int n) {
  int i;
  bool is_prime = true;
  if (n == 0 || n == 1) {
    is_prime = false;
  for(i = 2; i <= n/2; ++i) {
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if(n % i == 0) {
    is_prime = false;
    break;
}

return is_prime;
}
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