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// Q11. Write a program in C to check whether a number can be expressed as the sum
of two prime numbers
#include <stdio.h>
int prime_number(int x)
    for (int i=2;i<x;i++)</pre>
        if (x\%i == 0)
            return 0;
        else if (i+1 == x)
            return x;
    }
}
int main()
{
    int n;
    printf("Enter Number: ");
    scanf("%d",&n);
    int a =n/2;
    for (int i=2;i<=a;i++)
        if (prime_number(i) && prime_number(n-i))
            printf("%d = %d + %d\n",n,i,n-i);
    }
    return 0;
}
Output:
Enter Number: 100
100 = 3 + 97
100 = 11 + 89
100 = 17 + 83
100 = 29 + 71
100 = 41 + 59
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100 = 47 + 53