|  |
| --- |
| #include<stdio.h> |
|  |  |  |
|  |  | int main() { |
|  |  | int n, i, flag = 0; |
|  |  |  |
|  |  | printf("Enter a positive integer: "); |
|  |  | scanf("%d",&n); |
|  |  |  |
|  |  | if (n <= 1) |
|  |  | printf("%d is not a prime number.", n); |
|  |  | else { |
|  |  | for(i=2; i<=n/2; ++i) { |
|  |  |  |
|  |  | if(n%i == 0) { |
|  |  | flag = 1; |
|  |  | break; |
|  |  | } |
|  |  | } |
|  |  | if (flag == 0) |
|  |  | printf("%d is a prime number.", n); |
|  |  | else |
|  |  | printf("%d is not a prime number.", n); |
|  |  | } |
|  |  | return 0; |
|  |  | } |