#include <iostream>

#include <math.h>

using namespace std;

int main ()

{

int num, i, fact, inum;

cout<< "Please enter any number\n";

cin>>num;

inum = sqrt(num);

for (i=2; i<num; i++)

if (num% i == 0)

{

fact = 0;

break;

}

else

fact = 1;

if (fact)

cout<<num << "is prime\n"<< endl;

else

cout<<num << "is NOT prime\n" << endl;

return 0;

}