

/\* PRIME\*/

```
#include<iostream.h>
#include<conio.h>
int prime(int);
void main()
{
    int n,f=0;
    clrscr();
    cout<<"Enter the number";
    cin>>n;
    if(n==2)
    {
        cout<<"The number is prime";
    }
    else if(n<2)
    {
        cout<<"The smallest prime number is 2";
    }
    else
    {
        f=prime(n);
        if(f)
        {
            cout<<"The number is prime";
        }
        else
        {
            cout<<"The number is not prime";
        }
    }
    getch();
}

int prime(int a)
{
    static int d=2,flag=1;
    if(d==a)
    {
        return(0);
    }
    else
    {
        if(a%d==0)
        {
            flag=0;
            d++;
        }
        else
    }
```

```
        {
            d++;
            flag=1;
            prime(a);
        }
    }
    return(flag);
}
```