4.WRITE A PROGRAM TO PRINT n PRIME NUMBERS THEN FIND THE nth Prime NUMBER AND NEXT THREE PRIME NUMBERS.
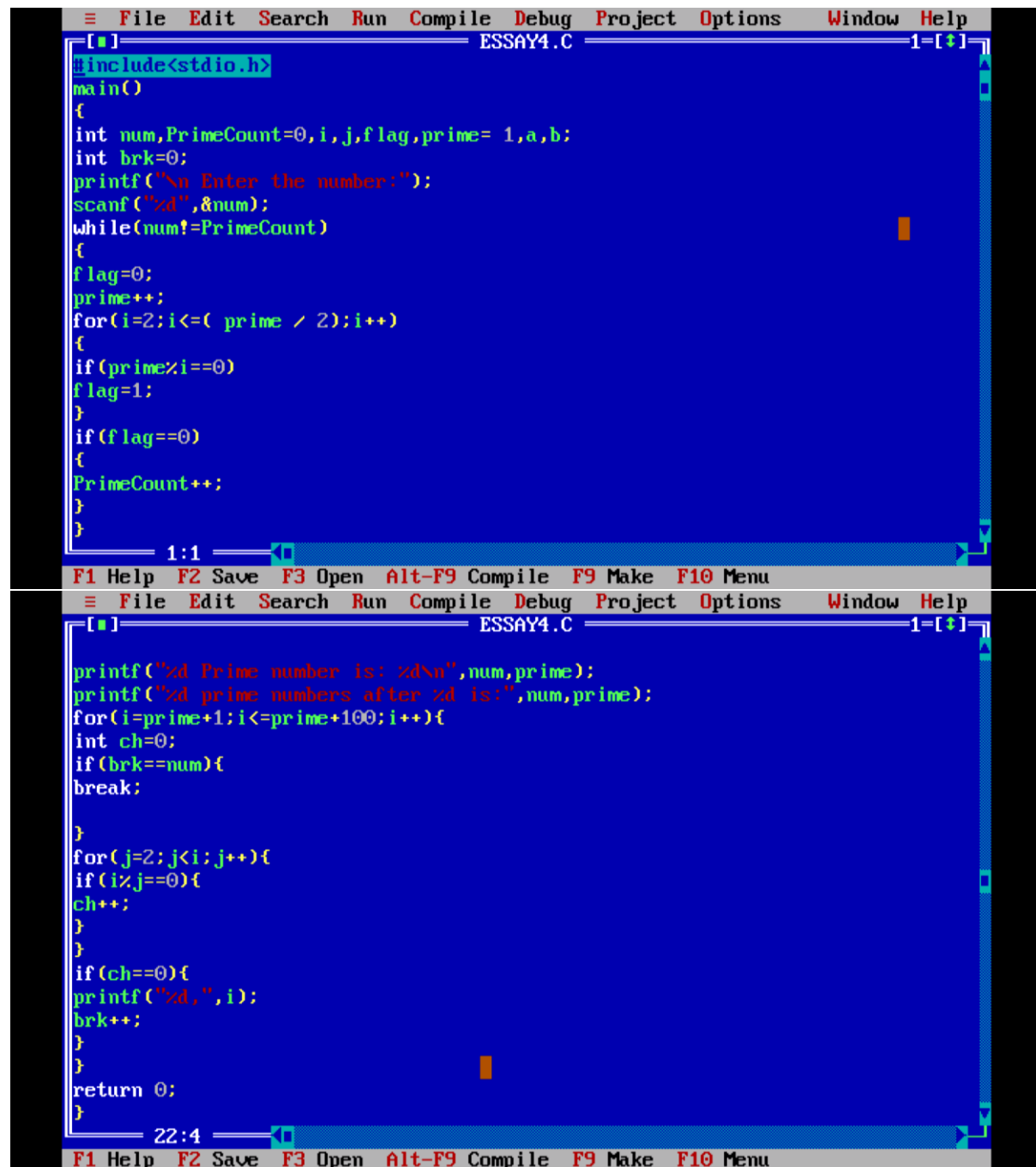
INPUT:

```c
#include<stdio.h>
main()
{
int num,PrimeCount=0,i,j,flag,prime= 1,a,b;
int brk=0;
printf("\n Enter the number:");
scanf("%d",&num);
while(num!=PrimeCount)
{
flag=0;
prime++;
for(i=2;i<=( prime / 2);i++)
{
if(prime%i==0)
flag=1;
}
if(flag==0)
{
PrimeCount++;
}
}
```

```c
printf("%d Prime number is: %d\n",num,prime);
printf("%d prime numbers after %d is:",num,prime);
for(i=prime+1;i<=prime+100;i++){
int ch=0;
if(brk==num){
break;

}
for(j=2;j<i;j++){
if(i%j==0){
ch++;
}
}
if(ch==0){
printf("%d,",i);
brk++;
}
}
return 0;
}
```

OUTPUT:

```
C:\TURBOC3\BIN>TC

 Enter the number:3
3 Prime number is: 5
3 prime numbers after 5 is:71113
 Enter the number:11
11 Prime number is: 31
11 prime numbers after 31 is:3741434753596167717379
 Enter the number:6
6 Prime number is: 13
6 prime numbers after 13 is:17,19,23,29,31,37,
 Enter the number:5
5 Prime number is: 11
5 prime numbers after 11 is:13,17,19,23,29,
 Enter the number:_
```