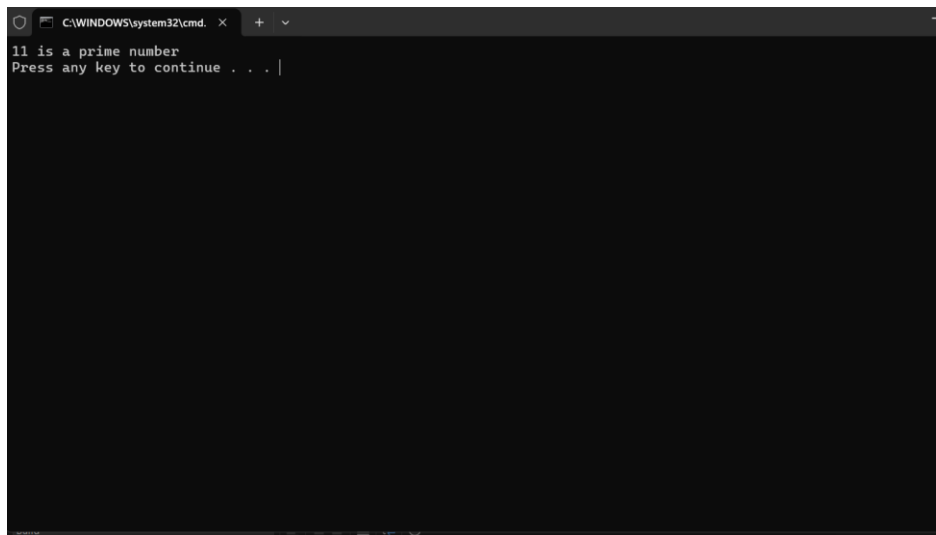


9) Write a program to check a number is a prime number or not using recursion.

CODE:

```
def isprime(n):
    prime=False
    for i in range(2,n):
        if n%i==0:
            prime=False
            break
        else:
            prime=True
    return prime
a=11
if isprime(a):
    print(f"{a} is a prime number")
else:
    print(f"{a} is not a prime")
```

OUTPUT:

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.' and standard window controls. The command prompt displays the output of the program: '11 is a prime number' followed by a prompt 'Press any key to continue . . . |'. The rest of the window is dark and empty.

TIME COMEPLXITY : $O(\sqrt{n})$