```
#
#       Trace the output. (nested ifs)
#

n = raw_input("Enter a number")                                         #Line No.1
if(n%2==0):                                                             #Line No.2
        print n," is even"                                              #Line No.3
        if(n == 2):                                                     #Line No.4
                print n," is 2, the smallest prime number"              #Line No.5
        else :                                                          #Line No.6
                print n," is not prime since it is dvisible by 2"       #Line No.7
else:                                                                   #Line No.8
        print n," is odd"                                               #Line No.9
        if(n%3==0 && n!=3):                                             #Line No.10
                print n," is not prime as it is divisible by 3"         #Line No.11
        else:                                                           #Line No.12
                print n," is not divisible by 6"                        #Line No.13

#
#     Trace the output.
#
#
#       The format of the trace must be as follows (upto 20 steps is sufficient) :
#               Give some sample values for n and then trace the output,
#
#       Trace of the computer's internal steps :
#
#       Step no.        Prog. Line      Memory Updates/Condition Checks
#       1               1               n = 25
#       2               2               (n%2 ==0) --> False
#       3               9
#       .
#       .
#       20
#
#       Trace of the output of the computer :
#
#       Step no.        Prog. Line      Output
#       1               1
#       2               2
#       3               9               25 is odd
#       .
#       .
#       20
```