

Gcode is a programming language which is used in CNC Machines or Computer Numeric Control Machines.

Gcode is an interpreted programming language.

Gcode can be used to do automatic lathe machine jobs.

Every Gcode program starts with G

Here is a simple gcode program

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```
O1000
T1 M6
(Linear / Feed - Absolute)
G0 G90 G40 G21 G17 G94 G80
G54 X-75 Y-75 S500 M3 (Position 6)
G43 Z100 H1
Z5
G1 Z-20 F100
X-40 (Position 1)
Y40 M8 (Position 2)
X40 (Position 3)
Y-40 (Position 4)
X-75 (Position 5)
Y-75 (Position 6)
G0 Z100
M30
```

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Some Emulators for running GCODE Programs are

- Mastercam
- Ncviewer