```
]
100 HGR
101 PRINT "SINE WAVE HARMONIC PLOT"
110 HCOLOR  = 1
120 a = 50
130 f = .0125
140 p = 0
150 FOR i = 0 TO 4
160 FOR x = 0 TO 255
170 y = a*SIN(2*3.14159*f*x+p)+100
180 HPLOT x, y
190 NEXT x
200 f = f*2: i = i+1
210 HCOLOR  = i
220 NEXT i
```