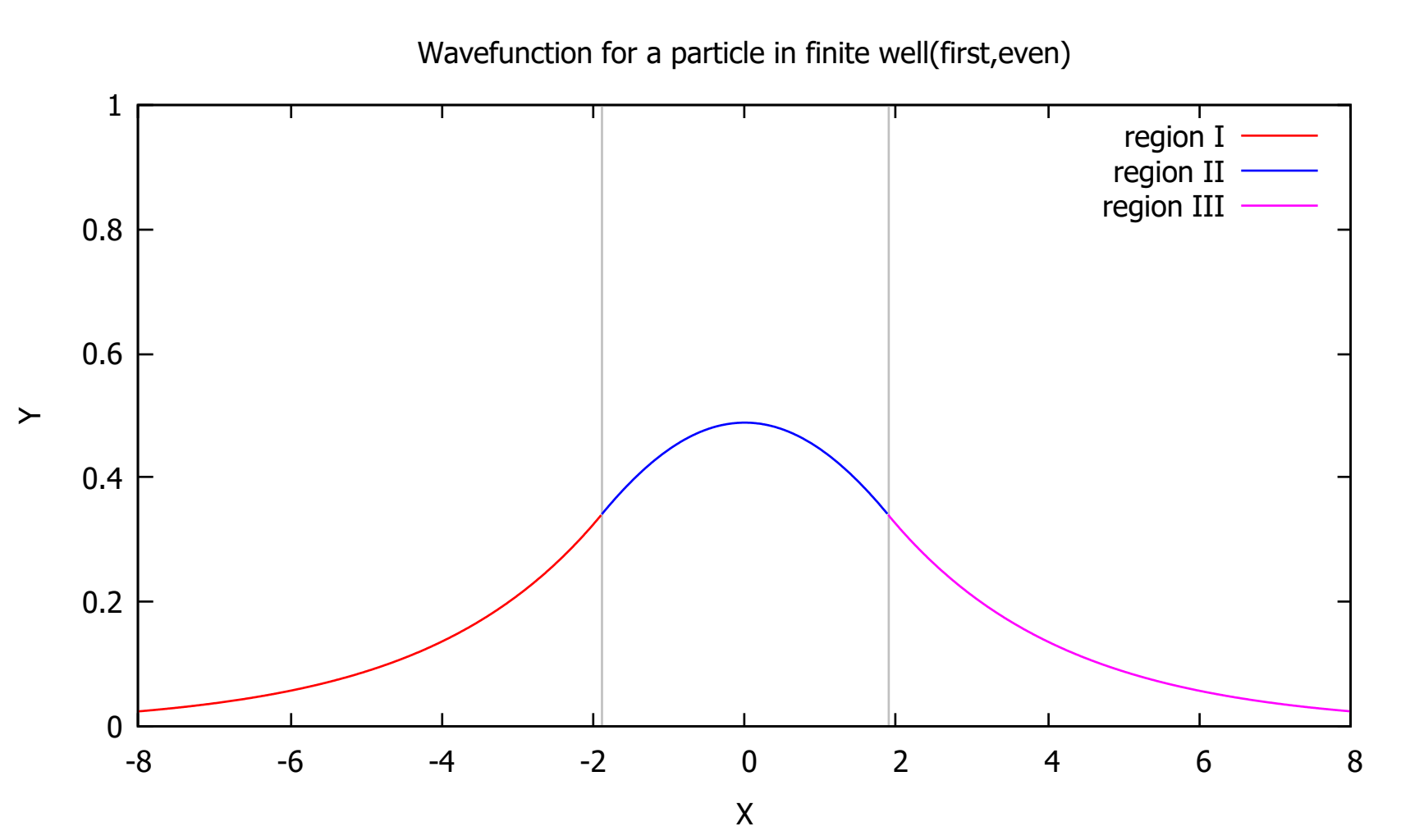
Wavefunction for a particle in finite well(first,even)
region I
region II
region III
Y
X
1
0.8
0.6
0.4
0.2
0
-8
-6
-4
-2
0
2
4
6
8

Command Prompt

```
C:\Users\Debasis\Documents\GitHub\FortranSem1\assignments_lect\finitewell>gfortran finitewell.f90

C:\Users\Debasis\Documents\GitHub\FortranSem1\assignments_lect\finitewell>a.exe
Root found in 11 iterations
a(angstrom)    :  1.000000
V0(eV)         :  5.000000
a(au)          :  1.889726
V0(hartree)    :  0.183747
lambda         :  1.312342
Root           :  0.798975
F(root)        :  0.000010
Energy(eV)     :  2.567856
q**2+a**2      :  0.367496
2*V0           :  0.367493
C/A            :  1.585078
C              :  0.774363
A              :  0.488533
alpha          :  0.434438
q              :  0.422799

C:\Users\Debasis\Documents\GitHub\FortranSem1\assignments_lect\finitewell>_
```