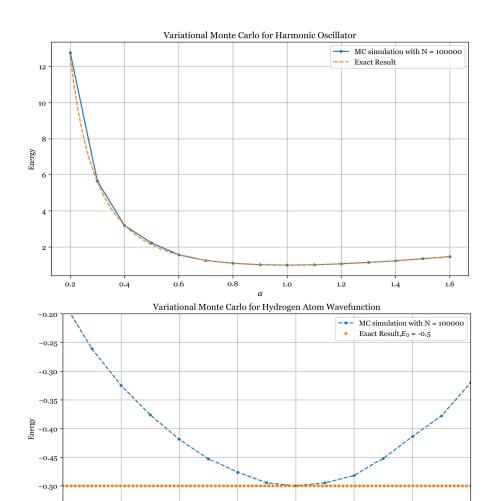
Assignment 2

0.55

-0.60 ↓ 0.2



1.4

PH21B011 Sumit Kumar

Table 1: vMC for Harmonic Oscillator

α	Mean Energy(E)	Variance(E)
а	Wear Energy (E)	variance(L)
0.200	12.756	302.457
0.300	5.638	62.904
0.400	3.189	18.298
0.500	2.221	8.006
0.600	1.575	3.085
0.700	1.255	1.176
0.800	1.101	0.435
0.900	1.021	0.091
1.000	1.000	0.000
1.100	1.016	0.076
1.200	1.075	0.261
1.300	1.150	0.605
1.400	1.235	1.068
1.500	1.355	1.585
1.600	1.464	2.385

Table 2: vMC for Hydrogen Atom

α	$Mean\ Energy(E)$	Variance(E)
0.200	-0.177	0.022
0.300	-0.254	0.037
0.400	-0.319	0.057
0.500	-0.371	0.052
0.600	-0.420	0.049
0.700	-0.452	0.038
0.800	-0.482	0.024
0.900	-0.495	0.009
1.000	-0.500	0.000
1.100	-0.495	0.011
1.200	-0.482	0.063
1.300	-0.452	0.148
1.400	-0.420	0.306
1.500	-0.378	0.469
1.600	-0.331	0.701