/part_a/item_response.py" theta: 3 [-1.49768430e-01 3.96174443e-01 2.25108681e-01 2.64464111e-01 1.76548581e-01 -1.53250819e-01 1.14058390e-01 6.07425415e-01 -6.38748870e-02 7.25982845e-01 2.36145676e-01 8.32887950e-01 -7.55787341e-04 -3.60323002e-02 3.82740884e-01 3.06363209e-01 6.61945307e-01 8.36771421e-01 6.48593986e-01 1.15264495e+00 4.54767757e-01 2.67644990e-02 -8.68296805e-01 6.14564365e-01 -1.56735874e-01 -6.25320473e-02 1.01406355e-01 6.69655682e-01 8.55465669e-01 1.35947950e+00 1.57465930e-01 1.57245724e+00 10 12 -6.65285176e-01 3.48106743e-01 -8.47685991e-01 4.56993629e-01 1.16880081e+00 1.64432205e-01 8.88211189e-01 4.19352661e-01 1.50368375e-01 -1.26326584e+00 4.72785361e-01 1.86076370e-01 -4.67648820e-01 4.05777027e-01 6.43568590e-01 -4.79549032e-02 14 15 16 -4.71958082e-01 1.83242384e+00 -8.43618130e-02 1.40971037e+00 17 5.03841212e-011.07775100e+00-8.92196348e-011.19038939e+00-8.78272139e-017.41826869e-012.41223676e+00-3.26380537e-011.01853328e-014.03951613e-022.41789241e-015.64125912e-01 18 19 20 4.10956779e-01 1.29642100e+00 -1.42982310e-03 7.60089295e-01 21 22 2.33546821e-01 7.47860010e-01 3.93474331e-01 -4.27069680e-03 5.78591662e-01 -9.76449966e-01 -5.55831328e-01 1.12312687e-01 1.95003146e-01 5.67142175e-01 5.87103682e-01 6.36007438e-01 2.64136093e-01 2.14420977e-01 1.71598096e-01 2.39734292e-01 23 24 25 4.68212342e-01 -7.85903248e-01 8.91190908e-01 -4.03339550e-01 27 29 -1.45412155e-01 -9.04966580e-02 3.16378823e-01 6.88765813e-01 31 33 -7.23079136e-01 -5.28037734e-02 3.77754456e-01 2.20109821e-01 34

 -4.74413045e-01
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 -2.31882917e-01

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 6.50362919e-01
 1.71616781e+00
 8.82506940e-02

35 36 37 -4.13833816e-02 1.03282123e+00 -6.39125118e-01 1.55890081e+00 38 39 6.73017961e-01 -5.64098722e-02 1.14695675e+00 -4.77020318e-01 1.46985751e+00 -9.71807580e-01 3.53760513e-01 4.53293171e-01 2.17890858e-01 1.24747768e+00 -9.01299307e-02 1.27638651e+00 40 41 8.98971873e-01 2.60282482e+00 5.67833461e-01 -5.55786317e-01 42 -3.73064897e-01 -4.12881749e-01 1.46395818e+00 1.35761284e+00 -3.50300835e-01 -1.09562801e+00 -5.22560241e-01 -7.06843673e-01 1.86205052e+00 -6.70362679e-01 -3.01592467e-01 1.42204703e-01 -3.63809269e-02 -8.14313510e-01 -6.95697272e-01 6.92176088e-01 44 46 -1.84502726e-01 6.46875007e-01 1.06717214e+00 -4.14115806e-01 48 1.59824774e+00 1.63913374e-01 4.10056474e-01 6.43787932e-01 49 50 7.73790361e-01 -9.13716921e-01 -1.14854155e+00 -1.95681265e-01 51 1.31591727e+00 -8.82134716e-01 3.36400984e-01 -5.07880525e-01 2.36666761e-01 1.11882720e+00 -4.42316488e-01 -7.29231723e-01 1.93234701e-01 8.04682002e-01 -2.47431265e-01 5.09904446e-01 53 54 2.40994789e-01 1.89498679e-01 -1.20695944e+00 6.11338269e-01 55 -8.74234603e-01 -2.81561929e-01 -1.52992342e-01 4.97105056e-01 8.55229364e-02 -1.44224142e-01 -4.92731407e-01 -6.44268350e-01 2.83864375e-01 -6.91961037e-01 9.53562350e-01 3.34379891e-01 -5.00334597e-01 -7.23227060e-01 4.38311911e-01 -6.12155248e-01 57 58 59 3.25537085e-01 6.80364207e-01 3.26844766e-01 2.24104426e+00 60 -3.99608365e-01 2.09443717e-01 1.13332813e+00 4.65788212e-01 -3.43161652e-01 1.54321609e+00 1.59068679e-01 -2.19392090e-01 2.60058365e+00 -1.33143718e-01 -1.16577915e+00 6.76587612e-01 61 62 63 -1.04394380e+00 -6.34989275e-01 1.41200121e+00 2.12635023e-01 64 65 -4.31680256e-01 2.06116146e-01 -6.63639944e-01 1.66221983e+00 66 67 1.05406200e+00 5.14112101e-01 9.30093374e-01 1.46958114e+00 68 69 1.65446352e+00 -5.13084224e-01 6.50607827e-01 7.51049524e-01 70 4.07344527e-01 2.23453188e-01 5.89152872e-01 1.99047082e+00

1 /usr/local/bin/python3.8 "/Users/lily/OneDrive - University of Toronto/CSC311/project

File - item_response 1.72981079e-02 7.18931964e-01 1.89786787e+00 9.53118232e-01 4.91662225e-01 -5.73519391e-01 -8.13301666e-01 7.45759035e-01 1.84417242e+00 1.83882658e-01 9.51863952e-01 1.33320132e+00 74 -8.43923913e-01 5.69775394e-01 -6.66242793e-01 -2.18599045e-01 1.68776681e-01 -2.70862304e-01 7.63561503e-01 1.29964232e+00 76 9.45358938e-01 9.92494016e-01 8.50664345e-01 1.57929499e+00 77 1.28830312e+00 1.53876840e+00 5.06912171e-01 1.90497191e-01 1.69870118e+00 4.57326601e-01 5.41366914e-01 -3.04538956e-01 78 79 5.02144232e-01 1.36920516e+00 3.44703508e-01 -2.39103539e-01 80 -6.49367001e-01 -2.91308865e-01 -1.51300287e-01 1.82699442e+00 -6.01790201e-01 -5.68528408e-01 -1.00901477e-01 5.45491931e-01 5.42973223e-01 -3.18186261e-01 1.51387768e-01 5.91838085e-01 81 82 5.63758897e-01 4.82398096e-01 -1.58766468e-01 1.60395373e-02 83 8.62663058e-02 -3.39927120e-01 9.65714018e-01 3.93982383e-01 8.70515713e-01 2.70871035e-01 1.72009252e+00 6.06910836e-01 -1.34150016e-01 1.34639975e+00 5.60347671e-01 5.39521483e-01 9.74163185e-01 2.20485420e-01 2.63607164e-01 -3.21076544e-01 85 87 5.14526738e-01 -4.51396610e-01 1.11353067e+00 -2.71977916e-01 -1.14849752e+00 2.50403751e-01 8.03937217e-01 -8.64797297e-01 89 2.66044890e-03 -9.89713632e-02 9.38143603e-01 2.13637004e-01 9.98140089e-01 -5.03540868e-01 1.27302895e+00 6.52342525e-01 91 1.45463358e+00 -2.75320829e-02 6.24443688e-01 1.15745652e+00 93 -2.15461181e-01 3.52565134e-01 -1.12711539e-01 1.12881233e+00 94 4.27011388e-02 -1.17422280e-01 -3.08639679e-01 -2.80228011e-01 2.29397421e-01 -2.16861858e-01 -8.00565193e-02 4.59279501e-01 95 -2.88763627e-01 -2.27253887e-01 -3.58817047e-02 2.09280032e-01 96 97 1.91604490e-01 -2.81189003e-01 3.34427564e-01 -5.18761066e-02 7.37990506e-01 2.45924421e-01 -2.74130599e-02 1.37836360e-02 1.12976909e-01 1.38300175e-01 4.22237675e-01 -4.76190732e-01 7.36213235e-01 1.98410298e-01 1.05075619e+00 3.69678445e-01 98 99 100 7.78383300e-01 -2.25455481e-01 -2.07602177e-01 -1.09060881e+00 101 1.06564902e+007.61431526e-013.04083796e-01-1.58548216e-015.32036282e-012.92157740e-014.41553562e-01-3.61326461e-012.77201085e-014.87958200e-01-1.46666059e-01-4.52393458e-01 102 103 104 6.33808507e-01 4.01098403e-01 1.23649174e+00 6.84639738e-01 105 106 5.41573187e-01 1.64497274e-01 1.01635229e+00 9.66262656e-02 2.87165854e-01 -4.75265741e-01 3.01275695e-01 1.69119600e-01 -2.76748719e-01 4.01766900e-01 7.79207834e-01 -2.32639601e-01 107 108 109 7.76469390e-01 -6.47904805e-01 -1.04451631e+00 2.17091871e-01 110 3.47355406e-01 6.61909095e-01 1.68994987e+00 4.48846078e-01 -5.83612891e-01 1.46165091e+00 7.46973555e-01 3.62849362e-02 5.15030789e-01 4.76658607e-01 -9.33715908e-02 6.70680060e-01 111 112 113 -7.02157105e-01 -2.15842893e-01 -2.85748587e-01 -4.79866512e-01 3.73965812e-01 7.52392910e-01 4.94356409e-01 5.86094586e-01 114 115 8.24946899e-01 2.51546064e-01 4.50806193e-01 -9.47323267e-01 -5.98184167e-01 -2.13426164e-01 8.79767436e-01 6.38791371e-01 -4.07685697e-02 7.25336244e-01 6.02571060e-01 9.43567540e-01 116 117 8.74670089e-01 -6.64091665e-01 3.80478761e-01 2.41737089e-01 118 7.18527871e-01 7.48685449e-02 -1.77339462e-01 1.03620046e+00 8.75379225e-02 6.72435020e-01 6.82940821e-01 4.81576756e-01 119 120 -4.55562867e-01 -2.89674800e-01 -4.41396055e-02 6.80949364e-01 121 3.40573269e-01 -1.52489553e-01 -7.04957973e-01 7.91178051e-01122 6.40188159e-02 4.58896007e-02 6.09346650e-02 6.49460888e-01 9.69241668e-01 4.01677009e-01 -2.94308880e-01 1.51055915e+00 1.20625065e-01 6.56606190e-01 -6.80308256e-01 8.93101490e-01 123 124 125 7.69606430e-01 4.71267077e-01 3.67124159e-01 -1.85897111e-01 126 127 3.74625129e-01 -2.47806489e-01 -5.44703518e-02 1.04111309e+00 1.11162816e-01 1.91216138e-01 -8.41055704e-01 3.53813809e-01 1.61935969e+00 4.92410627e-02 7.48456030e-03 -1.87718353e-01 128 129 5.34900497e-01 1.56857210e-01 3.46340032e-02 6.44682821e-01 130 2.73892006e-01 3.73210779e-01 9.70853519e-01 3.61448493e-02 131 132 8.56910165e-01 9.27872871e-01 -1.20817890e-01 5.84249098e-01 133 8.21185762e-02 -1.11129493e-01 -1.75513889e-01 1.26209349e-01 -7.36447815e-02 -1.35295916e-01 -1.15281758e-01 134 2.03458103e-01 135 2.07310772e-01 5.25490034e-01 2.62191385e-01 1.35158111e+00 136 4.48768187e-02 4.04774623e-01 -6.81236286e-01 4.91398041e-01 137 -1.29328068e-01 -6.12785228e-01 4.92281533e-01 -3.74063612e-01 138 3.49323926e-01 -1.17471753e-01] 139 beta:

0.03468611 -0.00709597 ... 0.05751194 -0.11311975

140 [0.1614338

141

0.04983494]

File - item_response

- 142 Validation Accuracy: 0.7071690657634773 143 Test Accuracy: 0.6994072819644369

145 Process finished with exit code 0

146