Suppose that 2 % of the people in Peshawar have the Covid 19. A laboratory conducting test to identify Covid 19 is 99 percent effective in detecting this disease when it is, in fact, present. Also, if a person does not have covid 19, the test correctly indicates so 99.9 % of the time. A random person from Peshawar is tested and his test result is positive then what is the probability that he has actually covid 19?