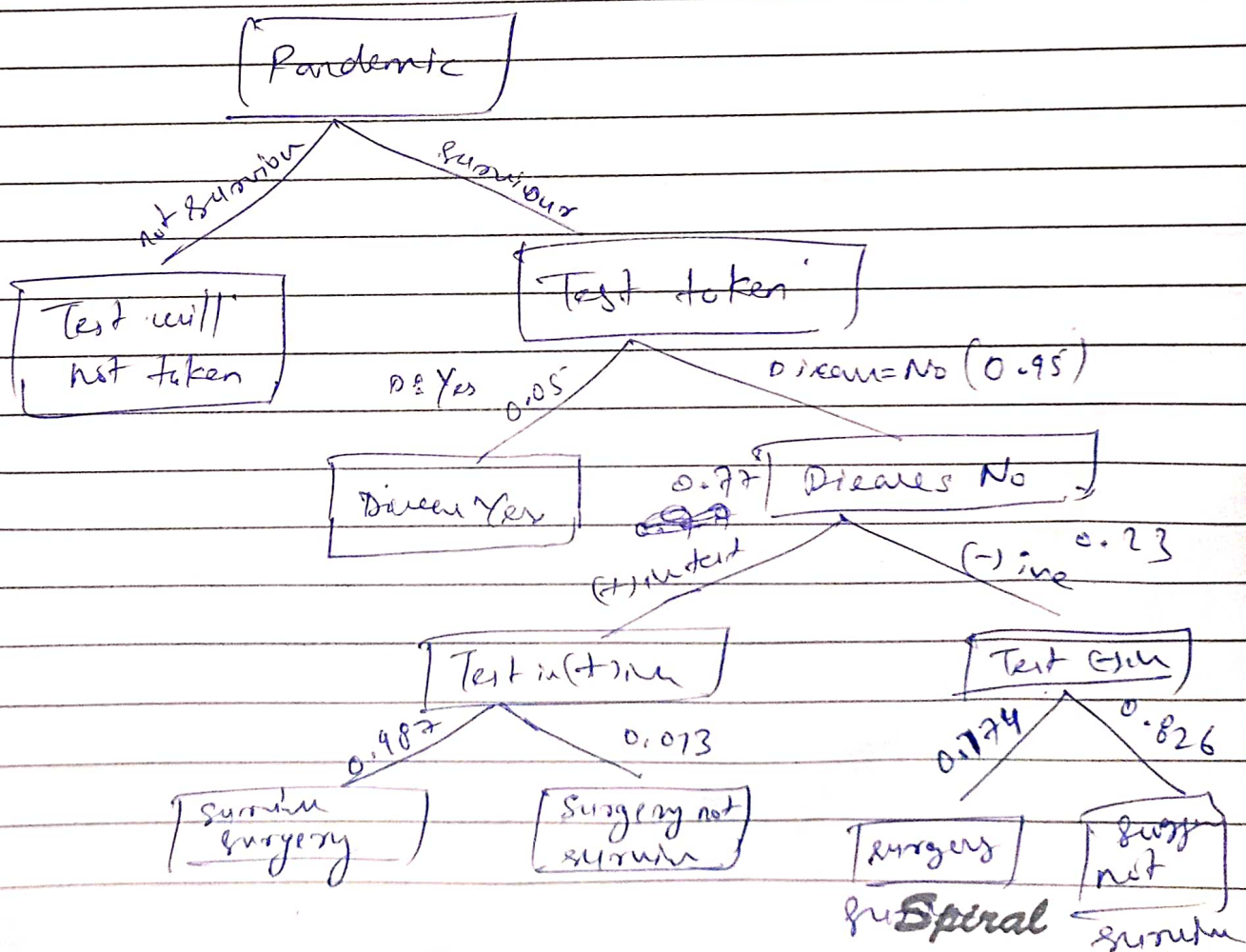


part.e Since, in this part our output is whether the person ~~having~~ survive or not ~~after~~ from pandemic, so the Decision tree will be given as:



Date.....

(f)

We have to find the probability of survival

$$P[\text{survive}] = P(\text{Test}^{\text{true}}) P(\text{having disease}) P(\text{the surgery})$$
$$= 0.77 \times 0.95 \times 0.987 + 0.0174 \times 0.23 \times 0.995$$
$$= 0.796$$

this value is less than the actual value of surviving the surgery.

Test will not taken because <sup>the probability of</sup> surviving the surgery after the test is ~~greater~~ less than as we have given.