Assignment - 1

(1) Flow chart :

Start

distance b/w current position, goal less than step size → **Yes** → end in success

No

distance from current position to closest polygon less than step size → **Yes** → Failure
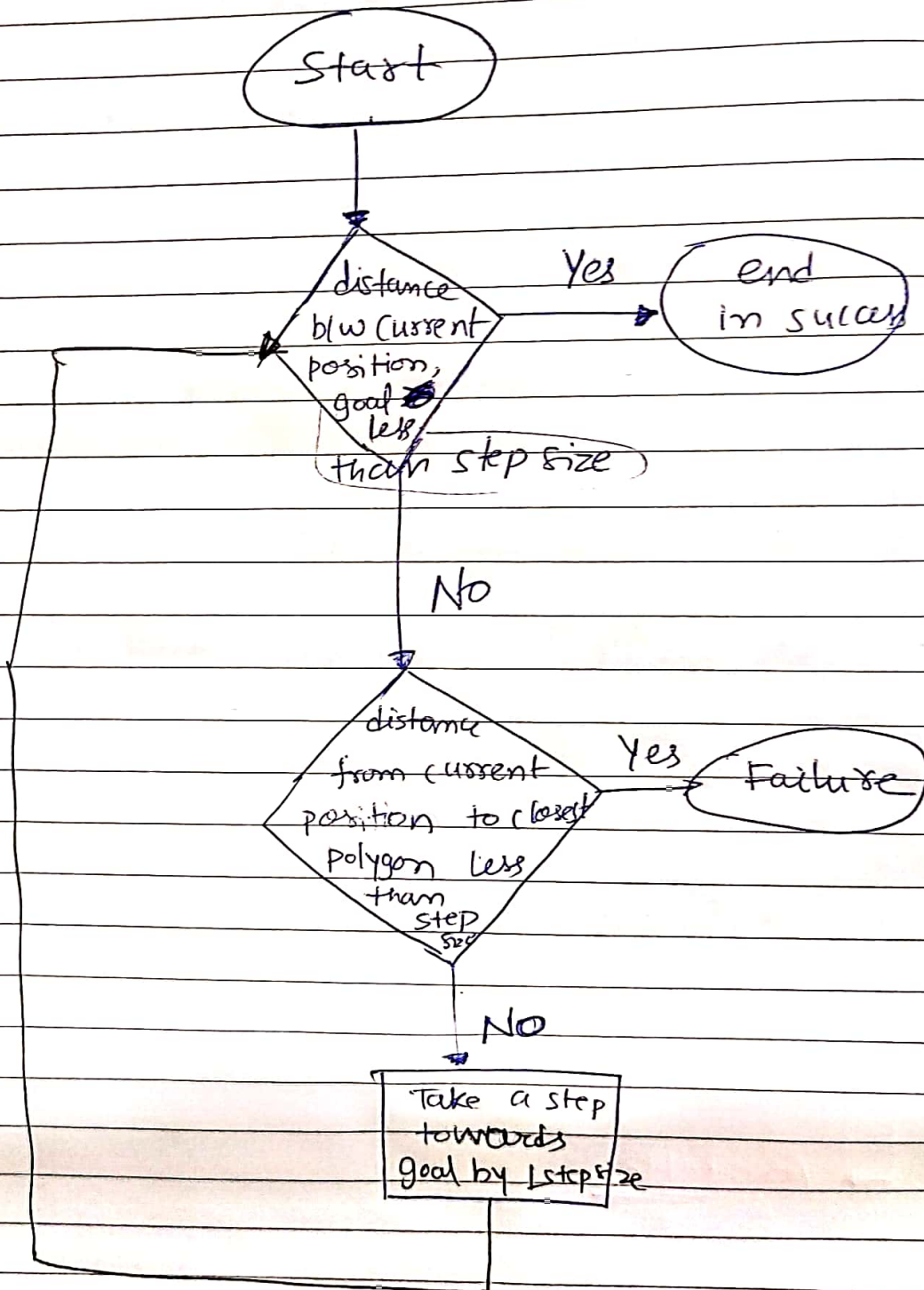
No

Take a step towards goal by 1step size

② Modify bug base to Bug-1

when the bot is stopping when distance from current position to closest polygon less than step size istead of giving falire program enter in while loop and circumnavigate the obstacle. and when bot return to it's initial position after circumnavigating it should calculate the nearest point in circumnavigating path to goal. and move towards the goal from that point. ✿

→ if it is not posible
    ↳ end in failure

↳ If it is possible the move and repeat the above process when encounter any other obstcle.

* Role of geometric functions

ⅱ) Compute Line Throug two Points :