Practical 4 Title: searching algorithm: Roblem statement months apython program to done 1011 members of student in orray who allen ded judicilied brodian in sangar anger white a program whether porticular student attend the program ornal. President not sept of workout a stury of students array who attended training program in sound oreder white function for regreting whether particular student attended program ornot wing binary & Ribonary search Leaning Objectives e) to study what is secreting. to understand implementation of various searching algorithms Theny. 1) Linear Searchi Tinear search is very early to implement in linear search we can traverse on each element, so 1+15 tooks more time than the other searching algorithms. It has high time could posit than any other searching algorithm.

DIFibonacci search Fibonacci search is companion based algorithm that area Elberger . to clement. number-to search an element is sorted in a binory search OSENHAI SEATCH To reduce over head of abeauty the list 18119th - the value to be search can be appended to thelin extended ara sentinal valle trong whose present the terminal of aloop that process shutteredo d) Binary sear Wi - Binary search is used with sorted array in a benory search we follow thefollowing Hep. \*) First age have sosted array then we divide into two equal pann:

Algorithm: again assinear search: Fiberon STAPID ATTA TOLL NO. 2) Check roll no In allay. s di t B) If It is present airear) then each'ng (1) EndIE 29 to line b) sentinal Search steps) take sentines & add it as wat position of andy alpaha xdala steps) sentines = xex. 35 24 position = = Key print 4) porthon = at end of lift th 5) if index & < 19 present () Flere not present. 7) Enoute. al c) Blody search step1) Accept key (element forearch) strps) Find mid = Clos+ high)!= Step3) Compare A Comid I with Key a) It poth are watching stop of print parition of key. b) If key is greater than Almid) low = mid +1 FIF but = high goto stop 2 Elle do to Heb T

Step 4) print that exert Ind Pound d) Fibonacii search STEP DA: SOTTEd CATCY C: Key meger FIB (=1 - Pib 2=1 Fib=2 stepp) astile = Pib Ln Piba = Pibl PID1 = F16 17b= Pib1+ 17b2 side bas steps) 120 Offrets =0 Jashile (Pib >1) do 12 min confret + Pibo 1) Pib= Pib1 Pibl = Pibo Pibe = 816-4161, OPFSERT=1 end if (ici) > ( then. F/b = F/b 2. Pibl= Pibl-Pibe \* Software requirement. - Python 3, TOG like Vi cods ADW CHOTE ESTORE No.

