```
Pasention sout
Pseudo code "
     for (= 2 #0 n

Key = A[i]

= i-/
                 while j>0 and A [j]> key

A[j+1] = A [j]

A[j+1] = key
    Day Jun :

p = [3, 4, 1, 2, 0]
     · for (=2 to 5
             1< ey= A[2]= 1

j= i-1= 2-1=1
                while 0>0 and A[0]>| {3>13} (false)

A[0+1]=| + 4=| A[1]=| + 4=| A[1]=| A
     · four (=3 $05
                        K_{\mathbf{w}} = A[3] = 2

j = (-1) = 3 - 1 = 2
                    while 1>0 and A[1]>2 {1>2} (False)
          A[j+1] = k_{yy} \Rightarrow A[l+] = 2 \Rightarrow 4 = 2 [in A = [3,1,2,4,0]]
```

```
· fox i=4 $05
                                                                                                                                                                                                                                                                    ky=A[4] = 0
j= (-1=4-1=3
                                                                                                                                                                                                                                                             while 1>0 and A[1] > 0 \begin{cases} 1>0 \end{cases} 

\begin{array}{ccc}
A & & & & & & & & & & & \\
A & & & & & & & & \\
A & & & & & & \\
A & & & & \\
A & & & & \\
A & & & & \\
A & 
                                                                                                                                                                       * Making j>=0 would succentibly sout the whole array
                                                                                                                                                                         Envi gis es
                                   2.1-1 A = [31,41,59,26,41,58]
2.1-3 Precodocode:
                                                                                                                                                                                          A=[3,4,1,2,0], n=5
                                                                                                                                                                              for i=1 to n

1<== A[i]

= i-1
                                                                                                                                                                                                                                                        while j>= 0 and A[j] < key is

A[j+1] = A[j]

j == 1
```

```
A [j+1] = key
2.1-4 Pseudocode:
              Linear search:

M = an ilvaint extend by The leger

flag = tabe

for i = 0 to n-1

if A[i] = = n

flag = drue
              olse print ("Element exists")

print ("Element closurof exist")
```