## Programa expresión regular

Adrian A. González Dominguez 359834 Programa en Python # Automata A def automaton (): states=[ [0,1,3], #0 [0,2,3], #1 [2,2,3],#2 [3,3,3],#3 finals = [2] alphabet=[a, b] state =0 resalt=[] while True: c=input\_file.read(1) if not cor e== \n'. break result, apend(c) column=choose\_column( len(alphabet), alphabet, c state=states[state][column] return is\_finall retarn is final ( leilfinals), finals, state ), '! jointresulf) len(finals), finals, state ), 10 join (result)

#Automata B def automaton (); states=[ [2,1,4],#0 [1,1,4],#1 smg [2,3,4],#2 [2,34],#3 [4,4,4]#4 finals=[1,3] alphobet=[a, b] state=0 result=[] while True: c=input\_file.read(1) if not c or e==/\n': break result.apend (d) column=choose\_column( len(alphabet), alphabet, c state=states[state][column]

def choose\_column(alphabet\_length, alphabet, c):
for i in range(alphabet\_length);
if alphabet [i] == c: Return primal solosnood A north return alphabet\_length def is\_finalfinals\_length, finals, state):
return state in finals if \_\_name\_\_ == '\_main\_\_!. input\_file = open(0) while Trae: \* [ ] [ ] [ ] valid, resat = aat mater () if result = 11: break [2, 1] = along if valided to I delando print (f"Cadena valida: {result}") print (f" (adena invalida") C=Input file read(1) tent deploke the alphohet lor (finals), finals, state