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**Ingeniería en Desarrollo de Software**

**Lenguajes Autómatas**

**Actividad : Ejemplo de un Lenguaje Autómata**

**Comandos principales de Git**

* git init
* git add
* git commt
* git push
* git pull
* git clone
* git checkout

**Definición Formal**

**Q**={q0,q1,q2,q3,q4,,q5,q6,q7,q8,q9,q10,q11,q12,q13,q14,q15,q16,q17,q18,q19,q20,q21,q22,q23,q24,q25,q26,q27,q28,q29,q30,q31,q32,q33,q34,q35}

**Ʃ**={a,c,d,e,g,h,I,k,l,m,n,o,p,s,t,u, ,}

**δ**= {(q0,g,q1), (q1,i,q2), (q2,t,q3), (q3, ,q4), (q4, ,q3), (q4,a,q5), (q4,c,q9), (q5,p,q26), (q4,i,q32), (q5,d,q6), (q6,d,q7), (q7, ,q8), (q8, ,q8), (q9,o,q10), (q10,m,q11), (q11,m,q12), (q12,i,q13), (q13,t,q14), (q14, ,q15), (q15,o,16), (q16,n,17), (q17,e,q18), (q18, ,q8), (q19, e,q20), (q21,k,q22), (q22,o,q23), (q23,u,q24), (q24,t,q25), (26,u,q27), (27,s,q28), (q28,h,q29), (27,l,q30), (q30,l,q31), (q31, ,q8), (q32,n,q33), (q33,i,q34), (q34,t,q35), (q35, ,q8)}

**q0**={q0}

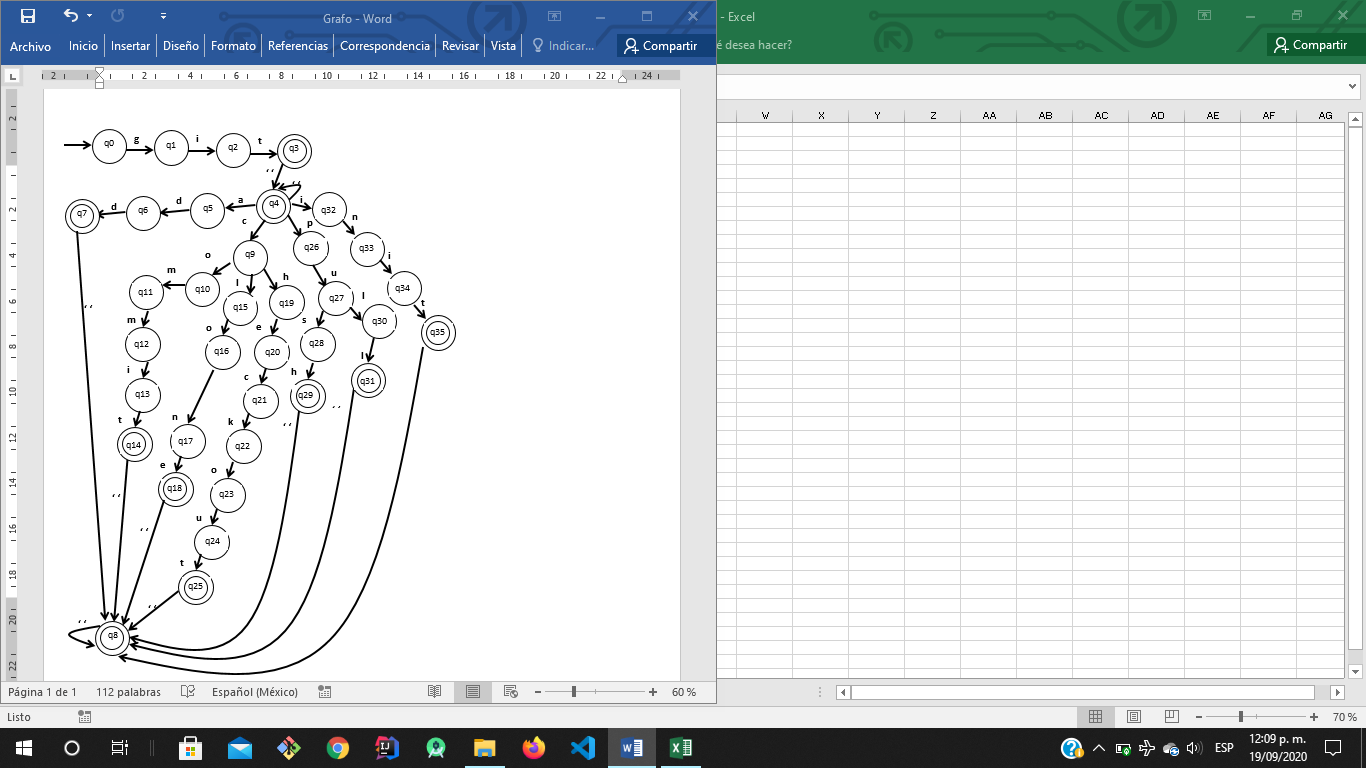
**F=**{q3,q4,q7,q8,q14,q18,q25,q29,q31,q35}

**M=<Q, Ʃ, δ, q0, F>**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | a | c | d | e | g | h | i | k | l | m | n | o | p | s | t | u | esp |
| →q0 |  |  |  |  | q1 |  |  |  |  |  |  |  |  |  |  |  |  |
| q1 |  |  |  |  |  |  | q2 |  |  |  |  |  |  |  |  |  |  |
| q2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q3 |  |  |
| \*q3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q4 |
| \*q4 | q5 | q9 |  |  |  |  | q32 |  |  |  |  |  | q26 |  |  |  | q4 |
| q5 |  |  | q6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| q6 |  |  | q7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \*q7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q8 |
| \*q8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q8 |
| q9 |  |  |  |  |  | q19 |  |  | q15 |  |  | q10 |  |  |  |  |  |
| q10 |  |  |  |  |  |  |  |  |  | q11 |  |  |  |  |  |  |  |
| q11 |  |  |  |  |  |  |  |  |  | q12 |  |  |  |  |  |  |  |
| q12 |  |  |  |  |  |  | q13 |  |  |  |  |  |  |  |  |  |  |
| q13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q14 |  |  |
| \*q14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q8 |
| q15 |  |  |  |  |  |  |  |  |  |  |  | q16 |  |  |  |  |  |
| q16 |  |  |  |  |  |  |  |  |  |  | 17 |  |  |  |  |  |  |
| q17 |  |  |  | q18 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \*q18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q8 |
| q19 |  |  |  | q20 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| q20 |  | q21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| q21 |  |  |  |  |  |  |  | q22 |  |  |  |  |  |  |  |  |  |
| q22 |  |  |  |  |  |  |  |  |  |  |  | q23 |  |  |  |  |  |
| q23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q24 |  |
| q24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q25 |  |  |
| \*q25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q8 |
| q26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q27 |  |
| q27 |  |  |  |  |  |  |  |  | q30 |  |  |  |  | q28 |  |  |  |
| q28 |  |  |  |  |  | q29 |  |  |  |  |  |  |  |  |  |  |  |
| \*q29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q8 |
| q30 |  |  |  |  |  |  |  |  | q31 |  |  |  |  |  |  |  |  |
| \*q31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q8 |
| q32 |  |  |  |  |  |  |  |  |  |  | q33 |  |  |  |  |  |  |
| q33 |  |  |  |  |  |  | q34 |  |  |  |  |  |  |  |  |  |  |
| q43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q35 |  |  |
| \*q35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | q8 |

**Tabla de transiciones**

**Grafo**

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