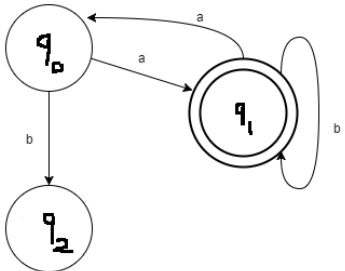
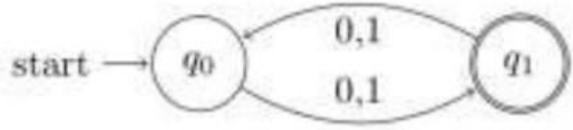


PART – A (10 * 1= 10 Marks)

Answer All

| Q. No | Question | Marks | BL | CO | PO | PI Code |
|-------|--|-------|----|----|----|---------|
| 1 | Identify the correct syntax from the following A. pydatalog.create_terms('X,Y') B. pyDatalog.create_term('X,Y') C. pyDatalog.create_terms('X','Y') D.pyDatalog.create_terms('X,Y') | 1 | 2 | 4 | 2 | 2.8.2 |
| 2 | Predict the output of the following <pre>from pyDatalog import pyDatalog pyDatalog.create_terms('X, Y') X = 'pyDatalog' print((Y=='Hello ' + X))</pre> <p>a. Y b. X ----- pyDatalog Hello <u>pyDatalog</u> Hello</p> <p>c. X d. Y ----- Hello pyDatalog Hello <u>pyDatalog</u></p> <p>Ans (D)</p> | 1 | 4 | 4 | 2 | 2.8.2 |
| 3 | Bind() needs for binding with socket a) IP Address and Port number b) IP version and Port number c) Socket family and port number d) Socket type and port number | 1 | 4 | 4 | 2 | 2.8.2 |
| 4 | What is AF_INET in the below code segment? s = socket.socket(socket.AF_INET, socket.SOCK_STREAM) a. Socket type b. Port number c. Socket family d. IP address | 1 | 2 | 4 | 2 | 2.8.2 |
| 5 | The ----- are assigned by automated substitutions, the values in those variables are ----- variables a. Most Generic unifiers, Logical b. Unifier, imperative c. First order logic, sequence d. First order, symbolic | 1 | 1 | 5 | 2 | 2.8.2 |
| 6. | Find the output of the following <pre>import sympy as sym sym.simplify((x + x * y) / x)</pre> a. X+2 b. X+1 c. Y+2 d. Y+1 | 1 | 3 | 5 | 2 | 2.8.2 |
| 7. | Find the correct syntax for the expression 2cos(2x) a. sym.diff(sym.tan(2 * x), x) b. sym.diff(sym.cos(2 * x), x) c. sym.diff(sym.sin(2 * x), x) d. sym.diff(sym.limit(2 * x), x) | 1 | 4 | 5 | 2 | 2.8.2 |
| 8. | Which of the following is not a part of 5-tuple finite automata? a) Input alphabet b) Transition function c) Initial State d) Output Alphabet | 1 | 2 | 5 | 2 | 2.8.2 |
| 9. | Which of the following will not be accepted by the following DFA?  <p>a) ababaaba b) abbbaa c) abbbaabb d) abbaabbbaa</p> | 1 | 3 | 5 | 2 | 2.8.2 |
| 10. | Which of the following language is accepted the given DFA? | 1 | 2 | 5 | 2 | 2.8.2 |

| | | | | | | |
|--|--|--|--|--|--|--|
| |  <p> A. All binary strings of even length. B. All binary strings with odd difference between number of 0 and number of 1. C. All binary strings of odd length. D. All binary strings with odd difference </p> | | | | | |
|--|--|--|--|--|--|--|