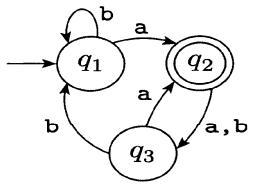
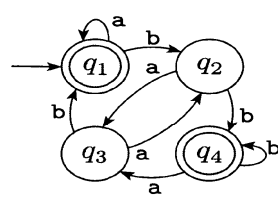
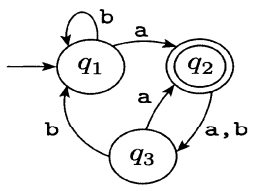
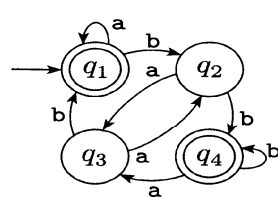


Q2.	a) Differentiate between a Compiler and Interpreter? Give 4 examples of Interpreted programming languages b) Draw a block diagram of Java Interpreter System	3 2 (5)
Q3.	Consider the following source code: <code>force = 55 * acceleration</code> Where <i>force</i> and <i>acceleration</i> are floats, and 55 is integer Construct the lexemes, output of lexical analysis, syntax tree, semantic tree, intermediate code, optimized code, and assembly language code.	(5)
Q4.	<p>The following are the state diagrams of two Finite Automates, <math>M_1</math> and <math>M_2</math></p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;"><math>M_1</math>                      <math>M_2</math></p> <p>a) Give the complete formal description of machines <math>M_1</math> and <math>M_2</math> pictured above            b) Give the Transition Functions of machines <math>M_1</math> and <math>M_2</math>.            c) What sequence of states <math>M_1</math> and <math>M_2</math> go through on input aabb?            d) Do <math>M_1</math> and <math>M_2</math> accept string aabb?            e) Do <math>M_1</math> and <math>M_2</math> accept the string <math>\epsilon</math>?</p>	(10)       3 3 2 1 1

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