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5.5 CONVERSION FROM MEALY MACHINE INTO MOORE MACHINE

To convert the Mealy machine shown in Table 5.8 into a Moore machine, look at Table 5.8. We find that the conversion from a Mealy machine into a Moore machine involves more steps than the conversion from Moore into Mealy.

Table 5.8 Mealy Machine

Present state, y	Next state, Y /Output, Z	
	$x = 0$	$x = 1$
P	$R/0$	$Q/0$
Q	$P/1$	$S/0$
R	$Q/1$	$P/1$
S	$S/1$	$R/0$

This is because we find that certain states are associated with two outputs. For example, the state S is associated with outputs 0 and 1, and we cannot associate two different outputs with the same state in the Moore machine. This difficulty can be overcome if we define two different states for each state having two different outputs associated with it. For example, state S can be redefined as state S_0 associated with state 0 and S_1 associated with 1. For obtaining these states, the method is discussed now.

First write the states and associated outputs, as shown in Table 5.9. In Table 5.10, we find that the states Q and S must be redesignated as they have different outputs while states P and R retain their original designations. Now, we draw the preliminary Moore machine by making use of the new designations given in Table 5.10. This is shown in Table 5.11. It can be noticed that the output column of Table 5.11 corresponds exactly to the output column of Table 5.10.

Also, notice that the states Q_0 and S_0 are given as designations when the entries in the Mealy machine are $Q/0$ and $S/0$, respectively. When the entries are $Q/1$ and $S/1$, we write Q_1 and S_1 , respectively. This procedure must be adopted in all such cases where a state appears with the outputs of 0 and 1 in the Mealy machine.

Table 5.9 States and Associated Outputs

State	Output
P	1
Q	0, 1
R	1
S	0, 1

Table 5.10 States Redesignated

Original state	Output	Redesignated state
P	1	P
Q	0	Q_0
	1	Q_1
R	0	R
S	0	S_0
	1	S_1



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