Task 1: Read and Study the textbook from page 164 to page 168, “A Problem Solved: Transforming an Infix Expression to a Postfix Expression”. Use a stack to manually convert the following infix expression to postfix expression: $a * b$ / $(c - a)$ + $d * e$
Note: Your answer sheet must show the conversion process step by step, presenting the status of the stack after each step using a table with three columns (like Figure 5-9 on page 168 of the textbook).

Infix expression to postfix expression
a * b / (c - a) + d * e

Next Character from Infix Expression	Postfix Form	OPerator Stack (bottom to top)
a	a	
*	a	*
b	ab	*
/	ab*	
	ab*	/
(	ab*	/(
c	ab*c	/(
-	ab*c	/(-
a	ab*ca	/(-
)	ab*ca-	/(
	ab*ca-	/
	ab*ca-/	
+	ab*ca-/	+
d	ab*ca-/d	+
*	ab*ca-/d	+*
e	ab*ca-/de	+*
	ab*ca-/de*+	

Answer : The postfix expression is ab*ca-/de*+