A transaction record on a sales commission file contains the retail price of an item sold, a transaction code which indicates the sales commission category to which an item can belong, and the employee number of the person who sold the item. The transaction code can contain the values A, B or C which indicate that the percentage commission will be 6%, 8% or 10% respectively. Construct an algorithm that will read a record on the file, calculate the commission owing for that record and print the retail price, commission and employee number.

Defining diagram

Input	***Processing***	***Output***
Transaction record • retail_price • trans_code • emp_number	Read transaction record Calculate commission Print transaction datails	retail_price commission emp_number

Solution algorithm

Note that the CASE construct can be user here. In the solution algorithm, if the transaction code is not A, B, or C, then a message will print and the commission will be set to zero.

Process_transaction_record
Read retail_price, trans_code, emp_number
CASE OF trans_code
'A': commission = retail_price * 0.06
'B': commission = retail_price * 0.08
'C': commission = retail_price * 0.1
other : Display 'Invalid transaction code', trans_code commission = zero
ENDCASE
Print 'Retail price:', retail_price, 'Commission:', commission, 'Employee Number:', emp_number
END

Desk checking

1. Input data:

	First data set	***Second data set***
retail_price	$50	$60
trans_code	A	C
emp_number	12345	34567

2. Expected result:

	First data set	***Second data set***
commission	$3	$3.6

3. Desk check table:

Statement number	***retail_price***	***trans_code***	***emp_number***	***commission***
First pass				
1	$50	A	12345	
2				$3
3				Print
Second pass				
1	$60	C	34567	
2				$3.6
3				print