## 24. Repetition using PERFORM..TIMES

The computer can be instructed to repeat a certain paragraph a number of times using PERFORM .. TIMES.
e.g. PERFORM GET-STAFF-DETAILS 5 TIMES.

It is also possible to make the computer process a group of consecutive paragraphs a given number of times.
e.g. PERFORM GET-DETAILS THRU PRINT-DETAILS 5 TIMES
where GET-DETAILS is the first paragraph in the sequence and PRINTDETAILS is the last.

## Example

```
DATA DIVISION.
WORKING-STORAGE SECTION.
01 STAFF-DETAILS.
        05 STAFF-NAME PIC A(20).
        05 ANNUAL-PAY PIC 9(5).
        05 WEEKLY-PAY PIC 9(3).
```

    PROCEDURE DIVISION.
    MAIN.
PERFORM GET-STAFF-DETAILS
THRU DISPLAY-PAYSLIP
5 TIMES
STOP RUN.
GET-STAFF-DETAILS.
DISPLAY 'NAME ?' ACCEPT STAFF-NAME
DISPLAY 'ANNUAL PAY (5 DIGITS)' ACCEPT
ANNUAL-PAY.
CALCULATE-WEEKLY-PAY.
DIVIDE ANNUAL-PAY BY 52 GIVING WEEKLY-PAY
DISPLAY-PAYSLIP.
DISPLAY '
DISPLAY STAFF-NAME WEEKLY-PAY
DISPLAY '

## Exercises

1. What would happen if paragraph MAIN in the Example Program were changed to:

PERFORM GET-STAFF-DETAILS 5 TIMES
PERFORM CALCULATE-WEEKLY-PAY 5 TIMES
PERFORM DISPLAY-PAYSLIP 5 TIMES
STOP RUN.
How does this differ from the example ? Which is correct for this particular program?
2. Change the example program so that the computer PERFORMs a paragraph called PRODUCE-PAYSLIP 5 times; this paragraph in turn instructs the computer to carry out GET-STAFF-DETAILS, CALCULATE-WEEKLY-PAY, and DISPLAY-PAYSLIP.

