

Unit 4: Structured Programming

The following assignments should be done with Microsoft Word.

For Shapes Click on Insert > Shapes

Assignment 1:

The following algorithm describes the decisions and tasks that must be performed when deciding how many stamps to put on envelopes before mailing. The “rule of thumb” is one stamp for every five sheets of paper in the envelope.

1. Request the number of sheets of paper in the envelope.
2. Name it sheets.
3. Divide sheets by 5.
4. Round the quotient up to the next highest whole number.
5. Name it Stamps.
6. Output the number of stamps.
7. Ask if there are more envelopes. If yes, repeat the sequence. If no, end the program.

Using flowchart symbols and the rules of flowcharting from Unit 4, convert the steps (algorithm) into a flowchart.

Assignment 2:

You have been asked to design a computer program that will ask the user to

- enter a series of numbers,
- keep a running total as the numbers are input,
- output a final total of all numbers that are entered.

Decide on the steps the program must go through (algorithm) to accomplish this task and then use flowchart symbols and follow the rules of flowcharting outlined in Unit 4 to draw a flowchart to convert the algorithm into the steps the computer will execute as the program runs:

Save your assignment as **Unit4_Flowchart**. Print and Pass in.