

programming :: the development process

Assignment:

To create a **Microsoft Word** document that incorporates the following:

- ★ Bullets
- ★ Underlining
- ★ Italics
- ★ Inserting Hyperlinks
- ★ Fonts (styles, colours and sizes)
- ★ Bolding
- ★ Alignment
- ★ Headers and Footers (name, course, date, assignment)

Each student must determine how to incorporate the above criteria into their document.

If you are unsure about how to achieve any of these formats, go to “**Help**” and choose “**Show the Office Assistant**”. Then type in your question and follow the given steps.

Contents:

1. **Title Page**

- ★ Name
- ★ Date
- ★ Related Graphic
- ★ Assignment Name

2. **Summary** - Summarize the handout on the development process (Approximately 3 paragraphs – ALL WORDS MUST BE YOUR OWN!!!).

3. **Responses** - Answer the questions at the end of the handout in addition to the ones on the following page.

4. Questions

1. Name 3 benefits of commenting your code and explain why each is important.
2. What should be included in your header and why is the header important?
3. What are the primary steps involved in the software development process?
4. Briefly explain each step
5. Why is it important to test your code as it is being developed?
6. Create flow charts for “*Guess My Age*” “*Calculator*” and “*Scary Door*”.
7. Develop the program “*Vending Machine*” with the following criteria:
 - ★ Follows the steps laid out in the development process (see question 2)
 - ★ Should include a detailed flow chart and a listing of the C++ concepts necessary to get the job done (while loops, if statements, variables needed, etc.)
 - ★ The vending machine should: Display a vending machine “graphic”, collect money from the user, allow user to purchase from several choices, return change, if any.
 - ★ The vending machine allow multiple users to purchase from it.
 - ★ The vending machine should also keep a running tab of the money it has collected.