



Final Exam of Computer applications for 1st year

Please answer all the following ten questions:

1. Briefly define the following programming concepts:
- Compiler. - Source code. - Arrays. *[6] Marks*
2. Write a C-code that reads two integer number and prints out the biggest one. *[6] Marks*
3. Write a C-code that asks for the weight and length of a yarn and print out the yarn count in tex and metric (Nm). Recall that tex is defined as the mass of a yarn in gram per 1000 meters length and the metric count is defined as the length in meters per one gram of mass. *[6] Marks*
4. Write a C-code that uses a function to calculate the area of a circle. The code should ask for circle's radius and then print out the area on the screen. *[6] Marks*
5. Write a C-code that uses switch- statement to read a student score and print out student's grade. *[6] Marks*
6. Write a C-code that uses for-statement to read 20 numbers and calculate their average. *[6] Marks*
7. Write a C-code that uses while-statement to print out the odd numbers between 10 and 99. *[6] Marks*
8. Write a C-code that uses arrays to read 100 numbers and determine the minimum and maximum numbers among them. *[6] Marks*
9. Write a C-code that reads two arrays (*A* and *B*) each of which has three rows and five columns then the code will print out the array (*C*) that represents the summation ($C=A+B$). *[6] Marks*
10. Write a C-code that reads a positive integer number and send it to a function to calculate its factorial. *[6] Marks*

Best wishes,
Dr. Ebraheem Shady