

Business and Computer University College

CSI 211 Programming 1 Tutorial

Sheet: 03

1. Write a C++ program that enters a float number representing the grade of a student and print out whether the grade is pass or fail (pass \rightarrow Grade \geq 60)
2. write a C program that changes the temperature from fahrenheit to centigrade. The program should ask the user to enter the temperature in fahrenheit.
(Hint: use the formula $C=(5/9)*(F-32)$)
3. Write a program that accepting the pair non zero coordinates X & Y print the number of the quadrant in which the point (X, Y) lies.
4. Write a program which input three numbers and output the message "sorted" if the numbers are in ascending order and output "not sorted" otherwise.
5. Write a C++ program that inputs an integer and tells the user whether this integer is even or odd.
6. Write a program that will ask the user to enter a number between 1 and 5 using the if --- else statement and print the name of the number (for example print two if the user entered 2).
7. Write a C++ program that prompts the user to input the temperature in degrees centigrade. Then the program should print "Freezing" if the temperature is less than zero, "Clear" if the temperature is between 10 and 25, "TOO HOT" if the temperature is above 40, and "Out of range" otherwise.
8. Write a program that solves for a Quadratic equation:
 $ax^2 + bx + c = 0$
(Hint: $\Delta=b^2 -4*a*c$)
The program should tell if we have no or single or two distinct roots.
9. Write a program that inputs the total number of hours and the salary per hour for an employee and calculates his salary. If the number of hours is greater than 40, then the salary per hour for the extra work should be doubled.