



SCS 1310 - Object Oriented Programming

Practical 03

Write C++ programs for following tasks.

Prepare separate codes for each question.

Take a screenshot that depicting code and result for each question.

Submit a pdf file containing all the screenshots followed by question number.

1. Write a program to calculate the absolute value of an integer taken as a user input.
2. Write a program to determine if a number is even or odd.
3. Write a program to
 - Find the largest of three given numbers
 - Find the middle value in a set of three values, x, y and z.
 - (a) Using if-else
 - (b) Using turnery operator
4. Write a program for inserting following messages appropriately (get the temperature as a user input)

Only If Temperature is < 50 then expression is valid,
if not, user input is invalid.

And then Temperature < 30 – print “Wear the down jacket 1”
else “No need to worry about the jacket”.
5. The results of an examination are issued after calculating the average of the marks of 3 subjects. The grades of the examination results are categorized into four groups as follows:

Average \geq 70 – Very Good
70 > Average \geq 55 – Good
55 > Average \geq 40 – Pass
Average $<$ 40 – Fail

Write a C++ program to decode the grade of a student when his/her subject marks are given using if-else-if or ternary operators. The error message “Invalid Marks” should output when negative average is computed (if any)

6. Write a C++ program to convert Centigrade into Fahrenheit and Fahrenheit into Centigrade taken as user inputs for both value and type.