

Introduction to Computing Laboratory

Assignment – 4

1. Write a program in C to find the largest of three input numbers.
2. Write a program in C to check whether a given year is leap year or not.
3. Write a program in C without using any semicolon to print “HELLO WORLD” on the screen.
4. Write a program in C to check whether a valid triangle can be formed or not, where the lengths of the sides are entered through keyboard.
5. Write a program in C to check whether a character entered through the key board is a capital letter, a small letter, a digit or a special symbol.
6. Write a program in C to find the real roots of a quadratic equation where the values of three coefficients are accepted as input.
7. Write a program in C to find the largest of three given numbers using conditional / ternary operator.
8. Write a program in C to realize the following function:
 $f(x) = 6x+1$ when $x>0$,
 $= 2x^2+3$ when $30\leq x\leq 50$,
 $= 5x^3-6$ when $1\leq x\leq 29$,
 $= 0$ otherwise.
9. Write a program in C to accept the marks obtained by a student in three subjects of 100 marks each in an examination. Give the grade of the student as follows:

Percentage of Marks	Division
≥ 60	1 st
≥ 45 but < 60	2 nd
≥ 34 but < 45	3 rd
< 34	Fail

10. According to Gregorian calendar, it was Monday on the date 01/01/1900. If any year is input through keyboard; write a program in C to find out what is the day on 1st January of this year.