If else programming exercises

1. Write a C program to find maximum between two numbers.
2. Write a C program to find maximum between three numbers.
3. Write a C program to check whether a number is negative, positive or zero.
4. Write a C program to check whether a number is divisible by 5 and 11 or not.
5. Write a C program to check whether a number is even or odd.
6. Write a C program to check whether a year is leap year or not.

   If year is exactly divisible by 4 and not divisible by 100, then it is leap year.

   Or if year is exactly divisible by 400 then it is leap year.

7. Write a C program to check whether a character is alphabet or not.

   Hint: using *if ((ch >= 'a') && (ch <= 'z'))* or *if ((ch >= 'A') && (ch <= 'Z'))*

8. Write a C program to check whether a character is uppercase or lowercase alphabet.

   Character is uppercase alphabet if (ch >= 'A' and ch <= 'Z').

   Character is lowercase alphabet if(ch >= 'a' and ch <= 'z').

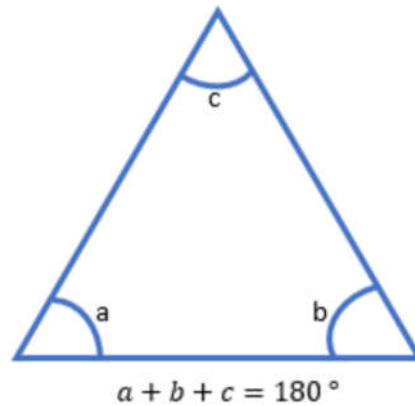9. Write a C program to input week number and print week day.

   Example

   Input:
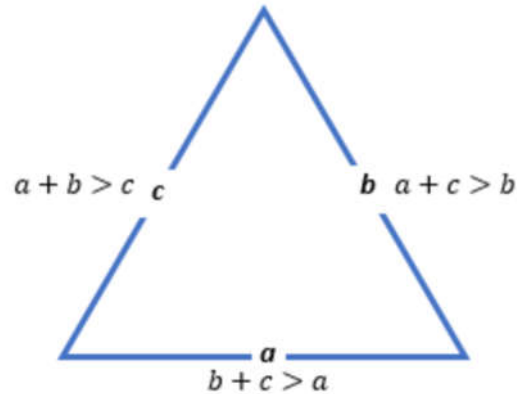
   > *Input week number: 1*

   Output:

   > *Monday*

10. Write a C program to input month number and print number of days in that month.

11. Write a C program to input angles of a triangle and check whether triangle is valid or not.

$$a + b + c = 180\,°$$

12. Write a C program to input all sides of a triangle and check whether triangle is valid or not.

$a + b > c$ c b $a + c > b$

a

$b + c > a$

13. Write a C program to check whether the triangle is equilateral, isosceles or scalene triangle.

14. Write a C program to calculate profit or loss.

   Example

   Input:

   Input cost price: 1000

   Input selling price: 1500

   Output:

   Profit: 500

Hint:

If cost price is greater than selling price then there is a loss otherwise profit.

Formula to calculate profit and loss:

      Profit = S.P - C.P (Where S.P is Selling Price and C.P is Cost Price)

      Loss = C.P - S.P

15. Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:

      Percentage >= 90% : Grade A

      Percentage >= 80% : Grade B

      Percentage >= 70% : Grade C

      Percentage >= 60% : Grade D

      Percentage >= 40% : Grade E

      Percentage < 40% : Grade F