Programs for Simple Programming Logic Practice(Using Control Structures) (C/C++/Java/C#)

Section 1: If & Switch

1) Write a program to print the product of two given numbers
2) Write a program to print the average of the three given numbers
3) Write a program to check the given number for even or odd
4) Write a program to check the given number for the divisibility of 3 & 4.
5) Write a program to convert the given centigrade temperature to foreign heat
6) Write a program to read three positive numbers and print the min, max and average of the given.
7) Write a program to read the month in integer and print the month name. Print "Invalid month" message if invalid number is given.

Section 2: while & do..while loop

8) Write a program to print 1 to 10 numbers
9) Write a program to print alphabets in lowercase from 'a' to 'z'.
10) Write a program to print alternative numbers from 50 to 100.
11) Write a program to print 3 divisible numbers between 1 and 50.
12) Write a program to print alternate 7 divisible numbers between 50 and 100.
13) Write a program to print first 5 alternate 7 divisible numbers after 100.
14) Write a program to print the sum of every fourth integer, beginning with 5 for all values less than 100.
15) Write a program to print the sum of all 6 divisible numbers between 1 and 50.
16) Write a program to print the sum of squares of first 5 three divisible numbers from 100.

17) Write a program to print the sum of alternate 7 divisible numbers between 1 and 50.
18) Write a program to print the numbers from 1 to 100 with five values per line, two blank spaces between values.
19) Write a program to print the conversion table to change the temperature in centigrade(C) to temperature in Fahrenheit (F) for all temperatures between 28C to 50C.Use the formula F= (9/5) C+32.
20) Write a program to read in a series of numbers and print each number with its square and its cube.
21) Write a program to read in a series of positive and negative numbers and print each number with its square and its square root.
22) Write a program to read in a series of numbers, each of which can contain decimal places. Print each number as it is read in. Determine whether each number is +ve, -ve or zero, and print "positive", "negative" or "zero" next to it. At the end print how many numbers are positive, negative and zero.
23) Write a program to reverse the given number
24) Write a program to check the given number for palindrome number
25) Write a program to check the given number for Armstrong number
26) Write a program to print all palindrome numbers between 100 and 200.
27) Write a program to print first 5 Armstrong numbers after 100.
28) Write a program to check the given number for prime number.
29) Write a program to print sum of all prime numbers between 1 and 25.
30) Write a program to print alternative prime numbers between 1 and 100 in reverse direction.
31) Write a program to read series of numbers and print all prime, Armstrong and palindrome numbers.
32) Write a program to print the binary equivalent for the given decimal number
33) Write a program to print the decimal equivalent for the given binary number
34) Write a program to print the hexadecimal equivalent for the given decimal number

Section 3: For loop

35) Write a program to find out the factorial of the given number
36) Write a program to print the table for the given number from 1 to 20.
37) Write a program to check the given number for Fibonacci number
38) Write a program to print the Fibonacci series for the given number of terms.
39) Write a program to print the sum of given numbers through command line.
40) Write a program to print the alphabets from A-Z in reverse.

Section 4: Nested loops

41) Write a program to print rectangle of '*' for the give no of lines.
42) Write a program to print the multiplication table that covers the numbers from 1 to 10.
43) Write a program to print the half pyramid of '$' for the given number of lines
44) Write a program to print the pyramid of '$' for the given number of lines
45) Write a program to print the diamond 'K' for the given number of lines.
46) Write a program that initializes two 3*3 integer matrices and displays the sum of both.
47) Write a program that initialized two 3*3 integer matrices and displays the product of both

Section 5: Recursion

48) Write a program to find out the factorial of a given number using recursion.
49) Write a program to find out the given number for Fibonacci number using recursion logic
50) Write a program to display the the sum of Fibonacci numbers for the given number of terms.