

Computer Organization and Design Practice

Assignment 4

Due Date: 8th April 2022

General instructions:

1. Write the Assembly Language Program (ALP) for the following questions. Compile and execute those programs and display the outputs.
2. Attach the screen shots of your programs with compilation, execution and outputs details.
3. Submit all the answers as a single PDF file named with your roll number.

Q1) Write a program to generate the Fibonacci series in ALP.

Sample output:

Enter the number range: 15

FIBONACCI SERIES: 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377

Q2) Write an ALP to check given number is Perfect number or not. A perfect number is a positive integer that is equal to the sum of its positive divisors, excluding the number itself. 6 is a positive number and its divisor is 1,2,3 and 6 itself. $1+2+3 = 6$ which is equal to number itself.

Q3) Write an ALP program to convert a decimal number to binary.