

Assignment 2

Subject: Principle of Programming Language

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Max. Marks: 10

1. Demonstrate through pseudo code and C language code to identify all the prime numbers in the range 1-1000.
2. Suppose we have to count the number of visitors in UPES since morning today. Codify a C program to meet our requirements. Program should ask the user, whether a new visitor arrived. If user answer 'Y' or 'y' then program should increment the visitor count. If user answer 'N' or 'n' then program should display the total visitor count. Perform increment operation in a separate function.
3. Demonstrate the procedure to convert an integer number into its binary equivalent by using a recursive function.
4. Devise a C program to print element at index number 1,2,4,8,16,32,64 in an array of 100 integer elements.
5. Let a number is palindrome if reversing the digits of a number gives same value as the original number's value. Identify a control construct which suits best to this scenario. Propose a solution in C Language to check whether a number is palindrome or not.