MCA Sem-I

CSC15: Lab-I (APD)

Lab Assignment- III

Last Date of Submission : February 8, 2021

1. Write a program to compute all the prime factors of a given integer.
2. Write program to generate a uniform set of pseudo-random numbers using linear congruential method. Successive members of the linear congruential sequence (x) are generated using the expression:

   $x_{n+1} = (ax_n + b) \bmod m \text{ for } n >= 0$, where the parameters a,b,m,x_0 must be chosen in advance according to certain criteria. The parameters a, b and m are referred to as multiplier, increment and modulus respectively and their values should be greater than or equal to zero and m should be greater than x_0, a and b.
3. Given some integer x, write a program to compute the value of x^n where n is positive number considerably greater than 1.
4. Write a program to find all the prime numbers lying between 100 and 200 using user-defined function.