Assignment – 4

Q1. Write a program to list all $\mathbf{Z_n}$ which is a field under addition and multiplication in the range of 2 to 100.

Q2. Write a program to find the list of prime field and extension field in the range of 2 to 200.

Q3. Write a program to find the primitive root of GF(n) where n is a prime number of powers 1.

Q4. Perform addition and multiplication operation on GF(16) and finds additive and multiplicative inverse of each element present in GF(16).

Q5. Find multiplicative inverse of 95 in GF(128).