**Codathon Practice Programs**

1. Even or Odd number
2. Sum of First N Natural numbers
3. Sum Of N Natural Numbers
4. Sum of numbers in a given range
5. Greatest of two numbers
6. Greatest of the Three numbers
7. Leap year or not
8. Prime number
9. Prime number within a given range
10. Sum of digits of a number
11. Reverse of a number
12. Palindrome number
13. Armstrong number
14. Neon number
15. Armstrong number in a given range
16. Fibonacci Series upto nth term
17. Factorial of a number
18. Power of a number
19. Factor of a number
20. Strong number
21. Perfect number
22. Automorphic number
23. Harshad number
24. Abundant number
25. Friendly pair
26. Highest Common Factor(HCF)
27. Lowest Common Multiple (LCM)
28. Greatest Common Divisor
29. Binary to Decimal to conversion
30. Binary to Octal conversion @
31. Decimal to Binary conversion @
32. Decimal to octal Conversion @
33. Octal to Binary conversion @
34. Octal to Decimal conversion
35. Quadrants in which a given coordinate lies @
36. Permutations in which n people can occupy r seats in a classroom
37. Maximum number of handshakes
38. Addition of two fractions
39. Replace all 0’s with 1 in a given integer
40. Can a number be expressed as a sum of two prime numbers
41. Count possible decodings of a given digit sequence
42. Check whether a character is a vowel or consonant
43. Check whether a character is a alphabet or not
44. Calculate the area of a circle
45. Find the ASCII value of a character
46. Find the prime numbers between 1 to 100
47. Calculate the number of digits in an integer
48. Convert digit/number to words @
49. Counting number of days in a given month of a year
50. Finding Number of times x digit occurs in a given input
51. Finding number of integers which has exactly x divisors
52. Finding Roots of a quadratic equation
53. Generate a random number in a given range
54. Count no of vowels in a given word
55. Find largest length word in a given list of words
56. Remove duplicates from a list
57. Remove nth character from a string
58. Given number is a perfect square or not
59. Sum of all elements in a list
60. Array rotation
61. Find nth largest number in a list
62. Calculator program (operations like +,-,\*,/,//,%)
63. Check given number is in the list or not
64. Find largest number in 3 numbers
65. How many times repeated a value in a given list
66. Largest prime number in a given list
67. Mean , mode and median of a list of numbers
68. Star Pattern printing programs
69. Number pattern printing programs
70. Matrix addition , subtraction and multiplication.