1. Write a program to sum the series: 12 / 1 + 22 / 2 + 32 / 3 + … + n2 / n.
2. Write a program to sum the series: - X + X2 – X3 + X4 +…
3. Write a program to sum the series: 1 + (1 + 2) + (1+2+3) + …
4. Write a program to sum the series: 1 – X + X2 / 2! – X3 / 3! +…
5. Write a program to display the sin(x), cos(x) and tan(x) value where x ranges from 0 to 360 in steps of 15.
6. Write a program to check whether the given number is prime or not.
7. Write a program to generate prime numbers within a set of limits.
8. Write a program to find the reverse of a given number and hence to check whether it is a palindrome number or not.
9. Write a program to check whether a given number is Armstrong or not.
10. Write a program to generate all the Armstrong number within a range.

**[Ex:153=13+53+33=153]**

1. Write a program to check the given number is Krishnamoorthy number or not.

**[Ex:145=1!+4!+5!=145]**

1. Writea program to generate all the Krishnamoorthy number within a range
2. Write a program for matrix addition.
3. Write a program for matrix subtraction.
4. Write a program to multiply two matrices.
5. Write a program to find the transpose of a matrix.
6. Write a program to rotate the matrix by 270 degree.
7. Write a program to sort the numbers in ascending order using array.
8. Write a program to sort the number using bubble sort.
9. Write a program to sort the strings using array.