1. Write a program to accept a number and determine whether it is a prime number or not.
2. Write a program to accept a number “*n*” from the user; then display the sum of the following series:

*1 + 1/2 + 1/3 + ……. + 1/n*

1. Write a program to accept 2 different numbers from the user and print all the prime numbers between these 2 numbers.
2. Write a program to accept a number “*n*” from the user; then display the sum of the following series:

*1/23 + 1/33 + 1/43 + …… + 1/n3*

1. Write a program to print the Fibonacci series up to the number 34.

(Example: 0, 1, 1, 2, 3, 5, 8, 13, … The Fibonacci Series always starts with 0 and 1, the numbers that follow are arrived at by adding the 2 previous numbers.)

1. Write a program to accept a number from the user; then display the reverse of the entered number.

(Example: Entered number = 12345; Reversed number = 54321)

1. Write a program to accept a number from the user and determine the sum of digits of that number. Repeat the operation until the sum gets to be a single digit number.
2. Write a program to accept 2 numbers “*m*” and “*n*” from the user; determine the value of *mn* without using predefined functions.
3. Write a program to accept a five-digit number, increment each digit by 1 and then display the new number formed. Note that digit *9* gets incremented to *0*.

Example:

Input: 14389

Output: 25490

1. Write a program to print the following output pattern.

1

121

12321

1234321

123454321