**Prime Numbers Between Two Integers**

#include <stdio.h>

int checkPrimeNumber(int n);

int main() {

int n1, n2, i, flag;

printf("Enter two positive integers: ");

scanf("%d %d", &n1, &n2);

printf("Prime numbers between %d and %d are: ", n1, n2);

for (i = n1 + 1; i < n2; ++i) {

// flag will be equal to 1 if i is prime

flag = checkPrimeNumber(i);

if (flag == 1)

printf("%d ", i);

}

return 0;

}

// user-defined function to check prime number

int checkPrimeNumber(int n) {

int j, flag = 1;

for (j = 2; j <= n / 2; ++j) {

if (n % j == 0) {

flag = 0;

break;

}

}

return flag;

}

1. Program to find the sum and average of n natural numbers using function.

Soln: do by urself

1. Program to implement linear search using function
2. #include<stdio.h>
4. int linear\_search(int\*, int, int);
6. main()
7. {
8. int array[100], search, c, n, position;
10. printf("Enter the number of elements in array\n");
11. scanf("%d",&n);
13. printf("Enter %d numbers\n", n);
15. for ( c = 0 ; c < n ; c++ )
16. scanf("%d",&array[c]);
18. printf("Enter the number to search\n");
19. scanf("%d",&search);
21. position = linear\_search(array, n, search);
23. if ( position == -1 )
24. printf("%d is not present in array.\n", search);
25. else
26. printf("%d is present at location %d.\n", search, position+1);
28. return 0;
29. }
31. int linear\_search(int \*pointer, int n, int find)
32. {
33. int c;
35. for ( c = 0 ; c < n ; c++ )
36. {
37. if ( \*(pointer+c) == find )
38. return c;
39. }
41. return -1;
42. }
43. Program to implement binary search
44. Program to implement amstrong number using function.
45. Program to find GCD and LCM of a number using function.