A Job Ready Bootcamp in C++, DSA and IOT More on functions in C Language

1. Write a function to calculate LCM of two numbers. (TSRS)

2. Write a function to calculate HCF of two numbers. (TSRS)

3. Write a function to check whether a given number is Prime or not. (TSRS)

4. Write a function to find the next prime number of a given number. (TSRS)

5. Write a function to print first N prime numbers (TSRN)

```
#include <stdio.h>
void nPrime(int);
int main()
   printf("Enter a number : ");
   nPrime(n);
void nPrime(int x)
            printf("%d ", i);
            count++;
Output:
Enter a number : 7
2 3 5 7 11 13 17
```

6. Write a function to print all Prime numbers between two given numbers. (TSRN)

```
#include <stdio.h>
void prime(int, int);
int main()
{
   int a, b;
   printf("Enter two numbers to print all prime numbers between them : ");
   scanf("%d%d", &a, &b);
   prime(a,b);
   return 0;
}
// below function is to calculate prime numbers between two numbers
void prime(int x, int y)
{
   int i, j;
```

7. Write a function to print first N terms of Fibonacci series (TSRN)

8. Write a function to print PASCAL Triangle. (TSRN)

```
#include <stdio.h>
int fact(int);
void pascalTriangle(int);
int main()
{
    int n;
    printf("Enter number of rows to print PASCAL Triangle : ");
    scanf("%d", &n);
    pascalTriangle(n);
    return 0;
}
// below function is to print pascal triangle
void pascalTriangle(int x)
{
```

9. Write a program in C to find the square of any number using the function

10. Write a program in C to find the sum of the series 1! /1+2!/2+3!/3+4!/4+5!/5 using the function.

```
#include <stdio.h>
int fact(int);
void sum();
int main()
{
    printf("find the sum of 1!/1+2!/2+3!/3+4!/4+5!/5\n");
    sum();
    return 0;
}
```