Write a program/function in any programming language that will implement Calling Subprograms Indirectly as discussed on the slides of ch9.Your program/function will take 2 non-zero, positive integers, e.g., 6 and 12 OR 16 and 2, as input parameters, and output any prime numbers between these 2 inputs.

Steps for execution

1. Copy the code from ***"Advanced Software Paradigms_CSCI_6221_10_Sagar_Sheth_HW4.txt".***
2. Open the below link in the web browser.
    a. https://www.programiz.com/c-programming/online-compiler/
3. Paste the Code in and Click on the Execute Run.

main.c

Run

```c
// Online C compiler to run C program online
#include <stdio.h>

void GetPrimeRange(int n1, int n2)
{
    int i,j,flag,temp;
    if(n1>n2)
    {
        temp=n2;
        n2=n1;
        n1=temp;
    }
    for(i=n1;i<=n2;i++)
    {
        flag=0;
        for(j=2;j<=i/2;j++)
        {
            if(i%j==0)
            {
                flag=1;
                break;
            }
        }
        if(flag==0)
        {
            printf("%d is a prime number.\n", i);
        }
    }
}
int main() {
    int n1,n2;
    printf("Enter 2 positive integers: \n");
    printf("Enter First positive integer: \n");
    scanf("%d", &n1);
    printf("Enter Second positive integer: \n");
    scanf("%d", &n2);
    void (*IndirectGetPrimeRange)(int a, int b)=GetPrimeRange;
    IndirectGetPrimeRange(n1,n2);

}
```

4. The below output should be displayed on the terminal.

```
Output
/tmp/khwUPHCelm.o
Enter 2 positive integers:
Enter First positive integer:
40
Enter Second positive integer:
149
41 is a prime number.
43 is a prime number.
47 is a prime number.
53 is a prime number.
59 is a prime number.
61 is a prime number.
67 is a prime number.
71 is a prime number.
73 is a prime number.
79 is a prime number.
83 is a prime number.
89 is a prime number.
97 is a prime number.
101 is a prime number.
103 is a prime number.
107 is a prime number.
109 is a prime number.
113 is a prime number.
127 is a prime number.
131 is a prime number.
137 is a prime number.
139 is a prime number.
149 is a prime number.
```