

C BASIC PROGRAMS

@curious_programmer

1] Fibonacci series in C.

→

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
int n1=0, n2=2 n2=1, n3, i, number;
```

```
printf("enter the number of elements:");
```

```
scanf("%d", &number);
```

```
printf("\n %d %d", n1, n2);
```

```
for (i=2; i<number; i++)
```

```
{
```

```
    n3 = n1 + n2;
```

```
    printf("%d", n3);
```

```
    n1 = n2;
```

```
    n2 = n3;
```

```
}
```

```
    return 0;
```

```
}
```

Output :

enter the number of elements : 5
0 1 1 2 3

2) C program to check prime number

→

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```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int i, n, m=0, status;
```

```
    status = 0; // status initialize to 0
```

```
    printf("enter the number to check prime or not : ");
```

```
    scanf("%d", &n);
```

```
    m = n/2;
```

```
    for (i=2, i<=m; i++)
```

```
    {
```

```
        if (n%i == 0)
```

```
        {
```

```
            printf("number is not prime number");
```

```
            status = 1
```

```
            break;
```

```
        }
```

```
    }
```

```
    if (status == 0) {
```

```
        printf("number is prime");
```

```
        return 0;
```

```
    }
```

Output :

enter a number to check prime or not : 15
number is not prime number.

3) Simple calculator using C.

→

```
#include <stdio.h>
```

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```
int main()
```

```
{
```

```
    char ch;
```

```
    int num1, num2;
```

```
    printf("choose the operator(+, -, /, *, %):");
```

```
    scanf("%c", &ch);
```

```
    printf("enter two numbers for operation:");
```

```
    scanf("%d %d", &num1, &num2);
```

```
    switch(ch)
```

```
{
```

```
        case '+':
```

```
            printf("%d + %d = %d\n", num1, num2,  
                num1 + num2);
```

```
            break;
```

```
        case '-':
```

```
            printf("%d - %d = %d\n", num1, num2,  
                num1 - num2);
```



```
break;
```

```
case "*":
```

```
printf("%d * %d = %d\n", num1, num2,  
num1 * num2);
```

```
break;
```

```
case "/":
```

```
printf("%d / %d = %d\n", num1, num2,  
num1 / num2);
```

```
case "%":
```

```
printf("%d %d = %d\n", num1,  
num2, num1 % num2);
```

```
break;
```

```
default:
```

```
printf("error! invalid operator");
```

```
}
```

```
return 0;
```

```
}
```

output:

choose the operator (+, -, *, /, %): +

enter two numbers: 10 20

10 + 20 = 30

4) C program to find largest in two numbers:

→

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
float num1, num2, num3;
```

```
printf("enter three numbers : ");
```

```
scanf("%f %f %f", &num1, &num2, &num3);
```

```
if (num1 >= num2)
```

```
{
```

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```
if (num1 >= num3)
```

```
{
```

```
printf("largest number = %.2f\n", num1);
```

```
}
```

```
else
```

```
{
```

```
printf("largest number = %.2f\n", num3);
```

```
}
```

```
else
```

```
{
```

```
if (num2 >= num3)
```

```
printf("largest number = %.2f\n", num2);
```

```
else
```

```
printf("largest number = %.2f\n", num3);
```

```
}
```

```

    }
    return 0;
}

```

Output :

enter three numbers : 12.5 27 35.9
largest number 35.9

5] HAIF pyramid of * in c.

→

```
#include <stdio.h>
```

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```
int main()
```

```
{
```

```
    int i, j, rows;
```

```
    printf("enter the number of rows : ");
```

```
    scanf("%d", &rows);
```

```
    for(i=1; i<=rows; i++){
```

```
        for(j=1; j<=i; j++){
```

```
            printf("* ");
```

```
        }
```

```
        printf("\n");
```

```
    }
```

```
    return 0;
```

```
}
```


Output:

*

* *

* * *

* * * *

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