```c
#include<stdio.h>
#include<string.h>
int main()
{
    int i = 0, count = 0;
    char databits[80];
    printf("Enter Data Bits: ");
    scanf("%s", databits);
    printf("\nData Bits After Bit stuffing: ");
    for(i = 0; i < strlen(databits); i++)
    {
        if(databits[i] == '1')
            count++;
        else
            count = 0;
        printf("%c", databits[i]);
        if(count == 5)
        {
            printf("0");
            count = 0;
        }
    }
    return 0;
}
```

```
Enter Data Bits: 11111011

Data Bits After Bit stuffing: 111110011
------------------------------------
Process exited after 13.1 seconds with return value 0
Press any key to continue . . .
```

Enter Data Bits: 1101111110111

Data Bits After Bit stuffing: 11011111010111

Process exited after 20.21 seconds with return value 0
Press any key to continue . . .

Enter Data Bits: 1111111111

Data Bits After Bit stuffing: 111110111110

Process exited after 15.81 seconds with return value 0
Press any key to continue . . .

```
Enter Data Bits:  1011111011111

Data Bits After Bit stuffing: 101111100111110
-----------------------------------
Process exited after 4.153 seconds with return value 0
Press any key to continue . . .
```

```
Enter Data Bits: 11111011111011111

Data Bits After Bit stuffing: 1111100111110011110
--------------------------------
Process exited after 3.31 seconds with return value 0
Press any key to continue . . .
```