



```
1 import java.time.LocalDateTime;
2 import java.time.format.DateTimeFormatter;
3
4 public class Main {
5     public static void main(String[] args) {
6         LocalDateTime myDateObj = LocalDateTime.now();
7         DateTimeFormatter myFormatObj = DateTimeFormatter.ofPattern("dd-MM-yyyy HH:mm:ss");
8
9         String formattedDate = myDateObj.format(myFormatObj);
10        System.out.println("The current date and time is: " + formattedDate);
11    }
12 }
13
14
```

```
java -cp /tmp/3u0QUNFjYv Main
The current date and time is: 12-08-2023 06:57:39
```



```
1 #include<stdio.h>
2
3 int main()
4 {
5     int w,i,f,frames[50];
6
7     printf("Enter window size: ");
8     scanf("%d",&w);
9
10    printf("\nEnter number of frames to transmit: ");
11    scanf("%d",&f);
12
13    printf("\nEnter %d frames: ",f);
14
15    for(i=1;i<=f;i++)
16        scanf("%d",&frames[i]);
17
18    printf("\nWith sliding window protocol the frames will be sent in the following manner\n");
19    printf("After sending %d frames at each stage sender waits for acknowledgement sent by the receiver\n",f);
20
21    for(i=1;i<=f;i++)
22    {
23        if(i%w==0)
24        {
25            printf("%d\n",frames[i]);
26            printf("Acknowledgement of above frames sent is received by sender\n");
27        }
28        else
```

Enter 4 frames: 5

7

11

13

With sliding window protocol the frames will be sent in the following manner
(assuming no corruption of frames)

After sending 5 frames at each stage sender waits for acknowledgement sent by the receiver

5 7 11 13

Acknowledgement of above frames sent is received by sender

Process exited after 22.15 seconds with return value 0

Press any key to continue . . .

Abort Compilation

Compilation results...

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Lenovo\Desktop\loc\CN 1.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.16s
```





Project Classes Debug CN 1.c CN 2.c CN 3.c

main0 : int

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     int i=0,count=0;
6     char databits[80];
7     printf("Enter Data Bits: ");
8     scanf("%s",databits);
9     printf("\nData Bits After Bit stuffing: ");
10    for(i=0; i<strlen(databits); i++)
11    {
12        if(databits[i]=='1')
13            count++;
14        else
15            count=0;
16        printf("%c",databits[i]);
17        if(count==5)
18        {
19            printf("0");
20            count=0;
21        }
22    }
23    return 0 ;
24 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Lenovo\Desktop\foc\CN 3.exe
- Output Size: 128.7734375 KiB
- Compilation Time: 0.30s
```

Line: 8 Col: 23 Sel: 0 Lines: 24 Length: 430 Insert Done parsing in 0.015 seconds



Project Classes Debug CN 2.c CN 1.c

- crc0 : void
- main0 : int
- receiver0 : void
- XOR0 : void
- check_value[28] : ch
- data[28] : char
- data_length : int
- gen_poly[10] : char
- i : int
- j : int

```
1 // Include headers
2 #include<stdio.h>
3 #include<string.h>
4 // length of the generator polynomial
5 #define N strlen(gen_poly)
6 // data to be transmitted and received
7 char data[28];
8 // CRC value
9 char check_value[28];
10 // generator polynomial
11 char gen_poly[10];
12 // variables
13 int data_length,i,j;
14 // function that performs XOR operation
15 void XOR(){
16     // if both bits are the same, the output is 0
17     // if the bits are different the output is 1
18     for(j = 1;j < N; j++)
19         check_value[j] = (( check_value[j] == gen_poly[j])?'0':'1');
20 }
21
22 // Function to check for errors on the receiver side
23 void receiver(){
24     // get the received data
25     printf("Enter the received data: ");
26     scanf("%s", data);
27     printf("\n-----\n");
28     printf("Data received: %s", data);
```

C:\Users\Lenovo\Desktop\fo\

Enter data to be transmitted: 7

Enter the Generating polynomial: 5

Data padded with n-1 zeros : 7
-----CRC or Check value is :
-----Final data to be sent : 7

Enter the received data: |

Compiler (2) Resources Compile Log Debug Find Results Close

Line	Col	File	Message
39	6	C:\Users\Lenovo\Desktop\fo\CN 2.c	[Warning] conflicting types for 'crc'
30	5	C:\Users\Lenovo\Desktop\fo\CN 2.c	[Note] previous implicit declaration of 'crc' was here

Line: 1 Col: 1 Sel: 0 Lines: 87 Length: 2768 Insert Done parsing in 0 seconds

Telegram

1 new notification
via Phone Link