Practical 8

Perform a GNU C program to generate frames from sender's message by splitting message by given frame length.

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

#define MAX_MESSAGE_LENGTH 1000

void generateFrames(char *message, int frameLength)
{
    int messageLength = strlen(message);
    int numFrames = (messageLength + frameLength - 1) /
                    frameLength;

    int i, j;
    printf("Frames:\n");

    for (i = 0; i < numFrames; i++)
    {
        printf("Frame %d: ", i + 1);
        for (j = 0; j < frameLength && (i * frameLength + j)
                    < messageLength; j++)
        {
            printf("%c", message[i * frameLength + j]);
        }
        printf("\n");
    }
}
```

```
int main()
{
    char message[MAX_MESSAGE_LENGTH];
    int frameLength;

    printf("Ente the message: ");
    fgets(message, sizeof(message), stdin);

    message[strcspn(message, "\n")] = '\0';

    printf("Enter the frame length: ");
    scanf("%d", &frameLength);

    generateFrames(message, frameLength);

    return 0;
}
```

* Learning outcome.

-> This program divides the given sentence into framelength. framelength number were also given by user.