

//Vsat Image Thresholding in C

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

int main(void)
{
    FILE *sFile, *dFile;
    int i, th;
    unsigned char pixel;

    sFile = fopen("Baboon.bmp", "rb");
    if(sFile == NULL)
    {
        printf("File not Found");
        getch();
        return 1;
    }

    dFile = fopen("BaboonThreshod.bmp", "wb+");
    if(dFile == NULL)
    {
        printf("File is not created");
        getch();
        return 1;
    }

    printf("Enter the value of threshold = ");
    scanf("%d", &th);

    for(i = 0; i < 1078; i++)
    {
        fread(&pixel, sizeof(char), 1, sFile);
        fwrite(&pixel, sizeof(char), 1, dFile);
    }
    while(!feof(sFile))
    {
        fread(&pixel, sizeof(char), 1, sFile);
        if(pixel<th)
        {
            pixel = 0;    //
```

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        fwrite(&pixel, sizeof(char), 1, dFile);
    }
    else
    {
        pixel = 255;
        fwrite(&pixel, sizeof(char), 1, dFile);
    }
}
printf("Thresholded image generated successfully with Threshold = %d\n", th);
fclose(sFile);
fclose(dFile);
//getch();

return 0;

}
```