Name: Nafinur Leo

Id: 20-42195-1

Section: C

Code:

.MODEL SMALL

.STACK 100H

.DATA

MSG DB "TYPE A CHARACTER: $"

MSG1 DB "RESPECTIVE BINARY: $"

MSG2 DB "NUMBER OF 1S: $"

.CODE

MAIN PROC

MOV AX,@DATA

MOV DS,AX

MOV AH,9

LEA DX,MSG

INT 21H

MOV AH,1

INT 21H

MOV BL,AL

MOV AH,2

MOV DL,0DH

INT 21H

MOV DL,0AH

INT 21H

MOV BH,0

MOV CX,8d

MOV AH,9

LEA DX,MSG1

INT 21H

FOR:

JCXZ NUM

SHL BL,1

JC ONE

JNC ZERO

ZERO:

MOV AH,2

MOV DL,'0'

INT 21H

dec CX

JMP FOR

ONE:

MOV AH,2

MOV DL,'1'

INT 21H

INC BH

dec CX

JMP FOR

NUM:

MOV AH,2

MOV DL,0DH

INT 21H

MOV DL,0AH

INT 21H

MOV AH,9

LEA DX,MSG2

INT 21H

ADD BH,30h

MOV AH,2

MOV DL,BH

INT 21H

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN

Screenshot:

