NAME :- DIVYA PRAVIN PATIL

CLASS :- SE COMPUTER

ROLL NO :- 45 BATCH :- B2

EXPERIMENT NO :- 9

TITLE: - TO GENERATE FIBONACCI SERIES.

AIM :- WRITE AN 8086 ASSEMBLY LANGUAGE PROGRAM TO GENERATE FIBONACCI SERIES.

DISPLAY ZERO MACRO

MOV DL, '0' MOV AH,02H INT 21H

ENDM

DISPLAY SPACE MACRO

MOV DL,''
MOV AH,02H
INT 21H

ENDM

DATA SEGMENT

NUMBER1 DB 00 NUMBER2 DB 01 CHART DB '0123456789' QUOTIENT DB ? REMAINDER DB ?

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE, DS:DATA

MOV AX, DATA MOV DS, AX

MOV CX, COUNTER

COUNTER DW 00AH

DISPLAY\_ZERO DISPLAY ZERO

DISPLAY SPACE

DISPLAY\_ZERO MOV AL,NUMBER2 CALL DISP CHAR

N1: MOV AH,00

MOV AL, NUMBER1 ADD AL, NUMBER2

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MOV DH, AL MOV BH, 10
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DIV BH

MOV QUOTIENT, AL MOV REMAINDER, AH

DISPLAY SPACE

MOV AL, QUOTIENT

CALL DISP CHAR

MOV AL, REMAINDER CALL DISP\_CHAR

MOV AL, NUMBER2 MOV NUMBER1, AL MOV NUMBER2, DH LOOP N1

JMP LAST

DISP\_CHAR PROC NEAR

MOV BX,00H

MOV BL,AL

MOV DL,CHART[BX]

MOV AH,02H

INT 21H

RET

DISP\_CHAR ENDP

LAST:MOV AH,4CH INT 21H CODE ENDS

END

OUTPUT:-00 01 01 02 03 05 08 13 21 34 55 89