CODE CONVERSIONS LECTURE 3

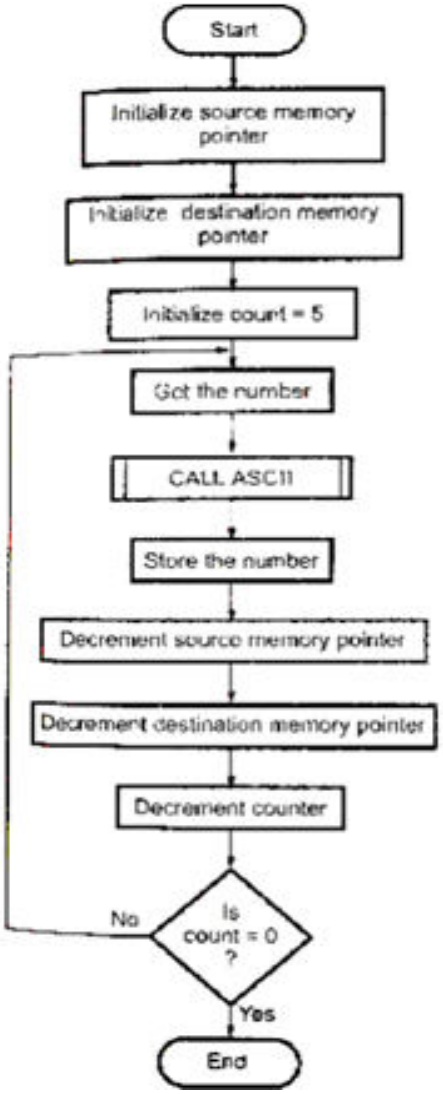
Dronacharya Group of Institutions

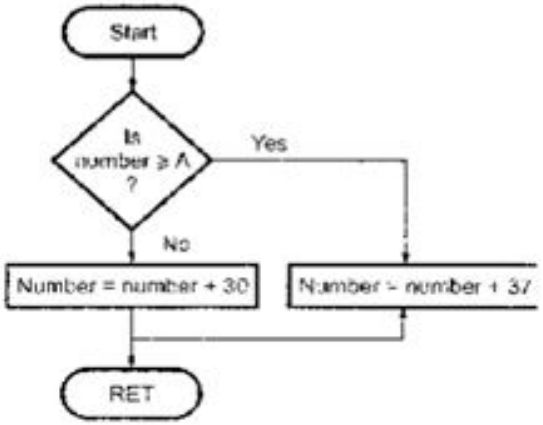
BINARY TO ASCII CODE CONVERSION

Problem statement: WAP to convert the content of 5 memory locations starting from 2000H into ASCII character. Place the result in five memory locations starting from 2200H.

```
    LXI SP, 27FFH
    LXI H, 2000H
    LXI D, 2200H
    MVI C, 05H
X:  MOV A,M
    CALL ASCII
    STAX D
    INX H
    INX D
    DCR C
    JNZ X
    HLT
ASCII:CPI 0AH
    JNC Y
    ADI 30H
    JMP Z
Y:  ADI 37H
Z:  RET
```

FLOWCHART FOR BINARY TO ASCII





ASCII TO BINARY CODE CONVERSION

Problem statement: WAP to convert the content of 5 memory locations starting from 2000H into Binary code. Place the result in five memory locations starting from 2200H.

```
LXI SP, 27FFH
LXI H, 2000H
LXI D, 2200H
MVI C, 05H
X: MOV A,M
CALL ASCII
STAX D
INX H
INX D
DCR C
JNZ X
HLT
```

```
ASCII:CPI 3AH
JNC Y
SUI 37H
JMP Z
Y: SUI 30H
Z: RET
```

FLOWCHART FOR ASCII TO BINARY