SIDDHI SINGH

17BIT0028

```
8085 MICROPROCESSOR
DWrite au ALP for adding two 8 bit numbere 02H, 07H stored en registers B and C respectively.
     MVI B, O2H
     MVI COTH
     MOU AIB
     ADD C
     HLT
DWhite an ALP for adding two 8 5st number 024,
1BH stored in registere B and C with earry
   MVI B, O2H
  MVI CILBH
    MOV AIB
    ADC C
    HLT
3 white an ALP for subtracting two 8 bit numbers stored en register with and without borrow.
  WITH BORROW
       MVI B, 02H
        MUI COTH
         MOV AIB
         SBB C
         HLT
  INITHOUT BORROW
         MVI B 1024
         M VI CI DAH
         MOV AIB
         SUB C
```

```
4) write an ALP for rosting the 8 bit data
 in memory addrew 01 and 02. Then perform
 addition of these two mumbers and store the result
 en memory address 03.
      LXI H, O1H
      MOV AIM
      INX H
      ADD M
      H XNI
      STA 03H
      HLT
(5) Write an ALP for storing 8 bit data in memory
address 04 and 05. Then berform subthracken of
there two number and stone the result in memory
addieu 09.
     LXI H, 084
                   LXI HIOUH
     MOU AIM
                   MOV AIM
     RAR
                   HXVI
     RAR
                    SUB M
     RAR
                   HXNI
     RAR
                    HXNI
     STA 094 .
                   STA OTH
     HLT
@ white an ALP -for notating the data available
 a memory addered 08 four time towarde right and
ston the result in memory addiese 07.
    LXI H, O8H
    MOU AIM
    RAR
    RAR
    RAR
    RAR
     STA 09 H
```

Durête au ALP for finding the 4 complement of deta many address 02. in menuny addrew 02. LXI H, O1H MOV AIM CMA STA 02H HLT puilt an ALP for finding the 2e complement of data stored en an addren to and store the result En memory addreu 12 LXI H, DAH MOV AIM upland CMA ADI O1H STA OCH HLT













