* Write instruction to use register bank 0, and load same value 05H in registers R0 to R2

MOV R0, # 05H

MOV R1, #05H

MOV R2, #05H

* Write instruction to use register bank 3,and load same value 05H in registers R0 to R2

SETB PSW.4

SETB PSW.3

MOV R0, # 05H

MOV R1, #05H

MOV R2, #05H

* Write a program to copy the value 55H into RAM memory location 40H to 42H using direct and indirect mode.

1. Direct Mode

MOV 40, #55H

MOV 41, #55H

MOV 42, #55H

1. Indirect

MOV R0, 40

MOV @R0, #55H

INC R0

MOV @R0, #55H

INC R0

MOV @R0, #55H

* Write instruction to copy the content of memory location(46) in register A, using direct and indirect addressing mode.

1. Indirect

MOV R0, #46

MOV A,@R0

1. Direct

MOV A, 46

* Multiply 25 by 10 using the technique of repeated addition.

MOV A, #55H

MOV R3,#10

NEXT: MOV R2,#70

AGAIN:CPL A

DJNZ R2, AGAIN

DJNZ R3, NEXT

* Write a program to Load the accumulator with the value 55H.Complement the ACC 700 times.

MOV A, #55H

MOV R3,#10

NEXT:MOV R2,#70

AGAIN:CPL A

DJNZ R2, AGAIN

DJNZ R3, NEXT