Assignment No:8

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Batch: A4

Problem Statement : Design Program using Control Transfer instruction using CPU simulator.

Code:

1,14,#FALSE#,#FALSE#,"abc_2",0,700,0,71,1,6,1767010425

0,0,0,0,0,0

0

0

0

0,4,"IN 0, R00",0,0,0,0,#FALSE#

6,4,"IN 0, R01",0,0,0,0,#FALSE#

12,1,"SUB #48, R00",0,0,0,0,#FALSE#

18,1,"SUB #48, R01",0,0,0,0,#FALSE#

24,0,"MOV #0, R02",0,0,0,0,#FALSE#

30,1,"ADD R00, R02",0,0,0,0,#FALSE#

35,1,"DEC R01",0,0,0,0,#FALSE#

38,2,"JNZ 30",0,0,0,0,#FALSE#

42,3,"CMP #9, R02",0,0,0,0,#FALSE#

48,2,"JLE 58",0,0,0,0,#FALSE#

52,1,"ADD #7, R02",0,0,0,0,#FALSE#

58,1,"ADD #48, R02",0,0,0,0,#FALSE#

64,4,"OUT R02, 1",0,0,0,0,#FALSE#

70,2,"HLT",0,0,0,0,#FALSE#

0

0

0

-1

Output:

