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 Dry Run

## LAB NO5

### Task NO1

Iteration	Variable	$i \leq 10$	output	Performance
1	$i = 1$	$1 < 10$	2	2 (Printed) i increase 2
2	$i = 2$	$2 < 10$	4	4 (Printed) i increase 3
3	$i = 3$	$3 < 10$	6	6 (Printed) i increase 4
4	$i = 4$	$4 < 10$	8	8 (Printed) i increase 5
5	$i = 5$	$5 < 10$	10	10 (Printed) i increase 6
6	$i = 6$	$6 < 10$	12	12 (Printed) i increase 7
7	$i = 7$	$7 < 10$	14	14 (Printed) i increase 8
8	$i = 8$	$8 < 10$	16	16 (Printed) i increase 9
9	$i = 9$	$9 < 10$	18	18 (Printed) i increase 10
10	$i = 10$	$10 < 10$	20	20 (Printed) i increase 11
11	$i = 11$	$11 < 10 (F)$		Loop terminated

### Task NO2

Iteration	Variable	$i > 0$	output	Perform
1	$i = 5$	$5 > 0 (True)$	5	5 is printed and i decrease to 4
2	$i = 4$	$4 > 0 (True)$	4	4 is printed and i decrease to 3
3	$i = 3$	$3 > 0 (True)$	3	3 is printed and i decrease to 2
4	$i = 2$	$2 > 0 (True)$	2	2 is printed and i decrease to 1
5	$i = 1$	$1 > 0 (True)$	1	1 is printed and i decrease to 0
6	$i = 0$	$0 > 0 (False)$		Loop terminated.



### TASK NO3

Iteration	Variable	$i > 0$	output	Perform
1	3	$3 > 0$ (True)	3	$3 > 0$ so 3 is printed
2	2	$2 > 0$ (True)	2	$2 > 0$ so 2 is printed
3	4	$4 > 0$ (True)	4	$4 > 0$ so 4 is printed
4	3	$3 > 0$ (True)	3	$3 > 0$ so 3 is printed
5	6	$6 > 0$ (True)	6	$6 > 0$ so 6 is printed
6	-2	$-2 > 0$ (False)	-2	$-2 > 0$ it is less than 0 so here loop terminated
Sum			18	

### TASK NO4

Iteration	Variable	$i \% 2 \neq 1$	output	Perform
1	$i = 1$	True	1	$Sum = 1$
2	$i = 2$	False		
3	$i = 3$	True	3	$Sum + 3 = 4$
4	$i = 4$	False		
5	$i = 5$	True	5	$Sum + 5 = 9$
6	$i = 6$	False		Loop

## TASK NO5

Iteration	Variable	ic=7	Temp	Output	Perform
1	i = 1	True	40		SUM = 40
2	i = 2	True	39		$40 + 39 = 79$
3	i = 3	True	36		$79 + 36 = 115$
4	i = 4	True	41		$115 + 41 = 156$
5	i = 5	True	20		$156 + 20 = 176$
6	i = 6	True	30		$179 + 30 = 206$
7	i = 7	True	35		$206 + 35 = 241$
Sum					Average = $241/7 = 211$

## Task No 6

Iteration	i	Withdraw	Remain	i > remaining	Output	Perform
1	200	100	100	True	<sup>+transfer</sup> Successesfully	Condition true
2	500	200	300	True	transfer	true
3	100	50	50	True	transfer	true
4	0	50	0	False	transfer	Loop terminated



# LAB NO6

## Task NO1

Iteration	variable	$i \neq 3$	O.p	perform
1	$i=1$	T	2	$i=2$
2	$i=2$	F	3	
3	$i=3$	F		
4	$i=4$	T	4	$i=2+3=5$
5	$i=5$	F		
6	$i=6$	F		
7	$i=7$	T	7	$i=5+3=8$
8	$i=8$	F		
9	$i=9$	F		
10	$i=10$	T	10	$i=8+3=11$
11	$i=11$	F		
12	$i=12$	F		
13	$i=13$	T	13	$i=11+3=14$
14	$i=14$	F		
15	$i=15$	F		
16	$i=16$	T	16	$i=14+3=17$
17	$i=17$	F		
18	$i=18$	F		
19	$i=19$	T	19	$i=17+3=20$

## Task NO 2

Iteration	Variable	i = wolf	output	Perform
1	i = Goat	F	Incorrect Password Please try again	user try again
2	i = lamp	F	Incorrect try again	user try again
3	i = wolf	T	password correct	correct Password terminate

## Task NO 3

Iteration	Variable	i = 51	output	Perform
1	i = 30	F	Too low	user can guess again
2	i = 73	F	To high	user can guess again
3	i = 51	T	congratulation Your guess is correct	Your guess is correct-loop terminate

## Task NO 4

Iteration	Variable	output	Perform
1	i = 1	Hello	i = 1 then hello print
2	i = 2	World	i = 2 then word printed
3	i = 3	Exit	i = 3 then exit printed



## Task NO5

Iteration	Variable	$i^2$	Performance
1	$i=1$	1	$0+1=1$
2	$i=2$	4	$1+4=5$
3	$i=3$	9	$5+9=14$
4	$i=4$	16	$14+16=30$
5	$i=5$	25	$30+25=55$
Sum of squares		55	sum of squares=55