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Subject: PF Lab Assignment

PF Lab Assignment 5 Dry Run

Task 1:

Iteration	Variable	i<=10	Ouput(Product i*n==4)	Action
1st	i = 1	True	4	4 is printed and i is increased to 2
2nd	i = 2	True	8	8 is printed and i is increased to 3
3rd	i = 3	True	12	12 is printed and i is increased to 4
4th	i = 4	True	16	16 is printed and i is increased to 5
5th	i = 5	True	20	20 is printed and i is increased to 6
6th	i = 6	True	24	24 is printed and i is increased to 7
7th	i = 7	True	28	28 is printed and i is increased to 8
8th	i = 8	True	32	32 is printed and i is increased to 9
9th	i = 9	True	36	36 is printed and i is increased to 10
10th	i = 10	True	40	40 is printed and i is increased to 11
11th	i = 11	False		The loop is terminated

Task 2:

Iteration	Variable	i > 0	Ouput	Action
1st	i = 5	True	5	5 is printed and i is decreased to 4
2nd	i = 4	True	4	4 is printed and i is decreased to 3
3rd	i = 3	True	3	3 is printed and i is decreased to 2
4th	i = 2	True	2	2 is printed and i is decreased to 1
5th	i = 1	True	1	1 is printed and i is decreased to 0
6th	i = 0	False		The loop is terminated

Task 3:

Iteration	Variable	i > 0	Ouput	Action
1st	i = 8	True		8 is entered by user and (i > 0) is true
2nd	i = 2	True		2 is entered by user and (i > 0) is true
3rd	i = 8	True		8 is entered by user and (i > 0) is true
4th	i = 2	True		2 is entered by user and (i > 0) is true
5th	i = 6	True		6 is entered by user and (i > 0) is true
6th	i = -1	False		The loop is terminated as (i >0) is false
Sum			26	26 is printed

Task 4:

Iteration	Variable	i%2==1	Ouput	Action
1st	i = 1	True		Sum 1=1
2nd	i = 2	False		
3rd	i = 3	True		Sum 1+3=4
4th	i = 4	False		
5th	i = 5	True		Sum 4+5=9
6th	i = 6	False		The loop is terminated
Sum			9	9 is printed

Task 5:

Iteration	Variable	i<=7	Temp	Output	Action
1st	i = 1	True	32		Sum =32
2nd	i = 2	True	34		Sum 32+34 = 66
3rd	i = 3	True	32		Sum 66+32 = 98
4th	i = 4	True	31		Sum 98+31 = 129
5th	i = 5	True	34		Sum 129+34 = 163
6th	i = 6	True	33		Sum 163+33 = 196
7th	i = 7	True	36		Sum 196+36 = 232
Average				33	Average 232/7 = 33

Task 6:

Iteration	Initial Balance	Withdrawl Amount	Remaining Balance	i > remaining balance	Output	Action
1st	i = 500	200	300	True	Transaction Successful	Condition is true so user enters withdrawl amount
2nd	i = 300	200	100	True	Transaction Successful	Condition is true so user enters withdrawl amount
3rd	i = 100	100	0	True	Transaction Successful	Condition is true so user enters withdrawl amount
4th	i = 0	50	0	False	Insufficient Balance	Loop is terminated as condition is false

PF Lab Assignment 5 Dry Run

Task 1:

Iteration	Variable	i += 3	Ouput	Action
1st	i = 2	True	2	i = 2
2nd	i = 3	False		
3rd	i = 4	False		
4th	i = 5	True	5	i = 2+3 = 5 (i +=3)
5th	i = 6	False		
6th	i = 7	False		
7th	i = 8	True	8	i = 5+3 = 8 (i +=3)
8th	i = 9	False		
9th	i = 10	False		
10th	i = 11	True	11	i = 8+3 = 11 (i +=3)
11th	i = 12	False		
12th	i = 13	False		
13th	i = 14	True	14	i = 11+3 = 14 (i +=3)
14th	i = 15	False		
15th	i = 16	False		
16th	i = 17	True	17	i = 14+3 = 17 (i +=3)
17th	i = 18	False		
18th	i = 19	False		
19th	i = 20	True	20	i = 17+3 = 20 (i +=3)

Task 2:

Iteration	Variable	i ==pass123	Ouput	Action
1st	i = pass1	False	Incorrect password. Try Again!	Condition is not fulfilled so user enters the password again
2nd	i = pass12	False	Incorrect password. Try Again!	Condition is not fulfilled so user enters the password again
3rd	i = pass123	True	Access granted!	Access is granted

Task 3:

Iteration	Variable	i == 42	Ouput	Action
1st	i = 23	False	Too low. Try again!	Condition is false so user guesses again.
2nd	i = 65	False	Too high. Try again!	Condition is false so user guesses again.
3rd	i = 45	False	Too high. Try again!	Condition is false so user guesses again.
4th	i = 42	True	Congratulations! You guessed the secret number	The loop is terminated as condition is true and the user guessed the secret number.

Task 4:

Iteration	Variable	Output	Action
1st	i = 1	Hello	"Hello" should be printed when i = 1
2nd	i = 2	World	"World" should be printed when i = 2
3rd	i = 3	Exit	"Exit" should be printed when i = 3 and loop is terminated

Task 5:

Iteration	Variable	Square of i	Ouput	Action
1st	i = 1	1		Sum of squares= 0+1 = 1
2nd	i = 2	4		Sum of squares= 1+4 = 5
3rd	i = 3	9		Sum of squares= 5+9 = 14
4th	i = 4	16		Sum of squares= 14+16 = 30
5th	i = 5	25		Sum of squares= 30+25 = 55
6th	i = 6	36		Sum of squares= 55+36 = 91
Sum of squares			91	Sum of squares= 91