- 1. // Task 01
- 2. // Name: Sourav Malani
- 3. // Roll #: i19-0434
- 4. // Declaring variables
- 5. Declare Real num1, num2, greater
- 6. // Prompt the user for two numbers
- 7. Display "Enter number 1:"
- 8. Input num1
- 9. Display "Enter number 2:"
- 10. Input num2
- 11. If num1>num2 Then
- 12. set greater = num1
- 13. Display "The greater of two is", greater
- 14. Else
- 15. If num2>num1 Then
- 16. set greater = num2
- 17. Display "The greater of two is", greater
- 18. // Here only possibility of numbers is to be equal.
- 19. Else
- 20. Display "Numbers are equal"
- 21. End If
- 22. End If

#Dry run 1

#	num1	num2	greater	num1>num2	num2>num1	Output
1	?	?	?			
2	?	?	?			
3	?	?	?			
4	?	?	?			
5	?	?	?			
6	?	?	?			
7	?	?	?			Enter number 1:
8	8	?	?			
9	8	?	?			Enter number 2:
10	8	69	?			
11	8	69	?	F		
14	8	69	?			
15	8	69	?		Т	
16	8	69	69			
17	8	69	69			The greater of two is 69
22	8	69	69			

#Dry run 2

#	num1	num2	greater	num1>num2	num2>num1	Output
1	?	?	?			
2	?	?	?			
3	?	?	?			
4	?	?	?			
5	?	?	?			
6	?	?	?			
7	?	?	?			
8	-4	?	?			
9	-4	?	?			
10	-4	-4	?			
11	-4	-4	?	F		
14	-4	-4	?			
15	-4	-4	?		F	
16	-4	-4	?			
19	-4	-4	?			
20	-4	-4	?			Numbers are equal
22	-4	-4	?			

#Dry run 3

#	num1	num2	greater	num1>num2	num2>num1	Output
1	?	?	?			
2	?	?	?			
3	?	?	?			
4	?	?	?			
5	?	?	?			
6	?	?	?			
7	?	?	?			
8	41	?	?			
9	41	?	?			
10	41	30	?			
11	41	30	?	Т		
12	41	30	41			
13	41	30	41			The greater of two is 41
22	41	30	41			

```
1. //Task 02
```

- 2. // Name: Sourav Malani
- 3. //Roll#: i190434
- 4. //Declaring variables
- 5. Declare Real a, b, c, max
- 6. //Taking inputs
- 7. Display "Enter 1st number:"
- 8. Input a
- 9. Display "Enter 2nd number:"
- 10. Input b
- 11. Display "Enter 3rd number:"
- 12. Input c
- 13. //Checking
- 14. If a > = b Then
- 15. If $a \ge c$ Then
- 16. set max=a
- 17. End If
- 18. Else
- 19. If $b \ge a$ Then
- 20. If $b \ge c$ Then
- 21. set max = b
- 22. End If
- 23. Else
- 24. If $c \ge a$ Then
- 25. If c >= b Then
- 26. $\operatorname{set} \max = c$
- 27. End If
- 28. End If
- 29. End If
- 30. End If
- 31. Display "The largest number is", max

#Dry run 1

#	а	b	С	max	a>=b	a>=c	b>=a	b>=c	c>=a	c>=b	Output
1	?	?	?	?							
2	?	?	?	?							
3	?	?	?	?							
4	?	?	?	?							
5	?	?	?	?							
6	?	?	?	?							
7	?	?	?	?							Enter 1 st number:
8	4	?	?	?							
9	4	?	?	?							Enter 2 nd number:
10	4	7	?	?							
11	4	7	?	?							Enter 3 rd number:
12	4	7	14	?							
13	4	7	14	?							
14	4	7	14	?	F						
19	4	7	14	?			Т				
20	4	7	14	?				F			
24	4	7	14	?					Т		
25	4	7	14	?						Т	
26	4	7	14	14							
27	4	7	14	14							
28	4	7	14	14							
29	4	7	14	14							
30	4	7	14	14							
31	4	7	14	14							The largest number is 14

#Dry run 2

#	а	b	С	max	a>=b	a>=c	b>=a	b>=c	c>=a	c>=b	Output
1	?	?	?	?							
2	?	?	?	?							
3	?	?	?	?							
4	?	?	?	?							
5	?	?	?	?							
6	?	?	?	?							
7	?	?	?	?							Enter 1 st number:
8	30	?	?	?							
9	30	?	?	?							Enter 2 nd number:
10	30	17	?	?							
11	30	17	?	?							Enter 3 rd number:
12	30	17	14	?							
13	30	17	14	?							
14	30	17	14	?	Т						
15	30	17	14	?		Т					
16	30	17	14	30							
17	30	17	14	30							
31	30	17	14	30							The largest number is 30

#Dry run 3. I have entered all number equal. In this case the greatest will be same.

because if two of the number were to be same and to be greater of third then the only greater will be considered as greatest.

#	а	b	С	max	a>=b	a>=c	b>=a	b>=c	c>=a	c>=b	Output
1	?	?	?	?							
2	?	?	?	?							
3	?	?	?	?							
4	?	?	?	?							
5	?	?	?	?							
6	?	?	?	?							
7	?	?	?	?							Enter 1 st number:
8	4	?	?	?							
9	4	?	?	?							Enter 2 nd number:
10	4	4	?	?							
11	4	4	?	?							Enter 3 rd number:
12	4	4	4	?							
13	4	4	4	?							
14	4	4	4	?	T						
15	4	4	4	?		Т					
16	4	4	4	4							
17	4	4	4	4							
31	4	4	4	4							The largest number is 4

```
1. // Task 03
2. // Roll#: i19-0434
3. // Name: Sourav Malani
4. // Declaring Variables
5. Declare Real a, b
6. //Taking Inputs
7. Display "Enter 1st number:"
8. Input a
9. Display "Enter 2<sup>nd</sup> number:"
10. Input b
11. // Checking
12. If a==b Then
      Display "Numbers are same", a, b
14. Else
15.
        If a < b Then
          Display "Ascending Order is:", a, b
16.
17.
        Else
18.
            If a>b Then
              Display "Order is", b, a
19.
20.
            End If
21.
        End If
22. End If
```

#	а	b	a==b	a <b< th=""><th>a>b</th><th>Output</th></b<>	a>b	Output
1	?	?				
2	?	?				
3	?	?				
4	?	?				
5	?	?				
6	?	?				
7	?	?				Enter 1 st number:
8	4	?				
9	4	?				Enter 2 nd number:
10	4	5				
11	4	5				
12	4	5	F			
15	4	5		Т		
16	4	5				Ascending Order is: 4, 5
22	4	5				

#	а	b	a==b	a <b< th=""><th>a>b</th><th>Output</th></b<>	a>b	Output
1	?	?				
2	?	?				
3	?	?				
4	?	?				
5	?	?				
6	?	?				
7	?	?				Enter 1 st number:
8	4	?				
9	4	?				Enter 2 nd number:
10	4	1				
11	4	1				
12	4	1	F			
15	4	1		F		
18	4	1			Т	
19	4	1				Order is 1, 4
22	4	1				

#	а	b	a==b	a <b< th=""><th>a>b</th><th>Output</th></b<>	a>b	Output
1	?	?				
2	?	?				
3	?	?				
4	?	?				
5	?	?				
6	?	?				
7	?	?				Enter 1 st number:
8	4	?				
9	4	?				Enter 2 nd number:
10	4	4				
11	4	4				
12	4	4	Т			
13	4	4				
22	4	4				Numbers are same 4,4

```
1. // Task 04
2. // Roll #: i19-0434
3. // Name Sourav
4. // Declaring variables
5. Declare Real a, b, c
6. // Taking Inputs
7. Display "Enter 1st number:"
8. Input a
9. Display "Enter 2<sup>nd</sup> number:"
10. Input b
11. Display "Enter 3<sup>rd</sup> number:"
12. Input c
13. // Checking
14. If a \le b Then
15.
      If a <= c Then
         If b<=c Then
16.
            Display "Increasing order will be", a, b, c
17.
18.
         Else
             Display "Increasing order will be", a, c, b
19.
20.
         End If
21.
      End If
22. End If
23. If b \le a Then
24.
           If b<=c Then
25.
              If a<=c Then
                Display "Increasing order will be", b, a, c
26.
27.
              Else
                 Display "Increasing order will be", b, c, a
28.
29.
              End If
30.
           End If\
31. End If
32. If c \le a Then
               If c<=a Then
33.
34.
                 If a<=b Then
35.
                    Display "Increasing order will be", c, a, b
36.
37.
                   Display "Increasing order will be", c, b, a
38.
               End If
39.
            End If
```

40. End If

#	а	b	С	a<=b	a<=c	b<=c	b<=a	b<=c	a<=c	c<=a	c<=a	a<=b	Output
1	?	?	?										
2	?	?	?										
3	?	?	?										
4	?	?	?										
5	?	?	?										
6	?	?	?										
7	?	?	?										Enter 1 st number:
8	13	?	?										
9	13	?	?										Enter 2 nd number:
10	13	8	?										
11	13	8	?										Enter 3 rd number:
12	13	8	7										
13	13	8	7	F									
22	13	8	7										
23	13	8	7				Т						
24	13	8	7					F					
31	13	8	7										
32	13	8	7							Т			
33	13	8	7								Т		
34	13	8	7									F	
37	13	8	7										Increasing order will be 7, 8, 13
40	13	8	7										

#	а	b	С	a<=b	a<=c	b<=c	b<=a	b<=c	a<=c	c<=a	c<=a	a<=b	Output
1	?	?	?										
2	?	?	?										
3	?	?	?										
4	?	?	?										
5	?	?	?										
6	?	?	?										
7	?	?	?										Enter 1 st number:
8	13	?	?										
9	13	?	?										Enter 2 nd number:
10	13	8	?										
11	13	8	?										Enter 3 rd number:
12	13	8	8										
13	13	8	8	F									
22	13	8	8										
23	13	8	8				Т						
24	13	8	8					Т					
25	13	8	8						F				
28	13	8	8										Increasing order will be 8, 8, 13
40	13	8	8										

#	а	b	С	a<=b	a<=c	b<=c	b<=a	b<=c	a<=c	c<=a	c<=a	a<=b	Output
1	?	?	?										
2	?	?	?										
3	?	?	?										
4	?	?	?										
5	?	?	?										
6	?	?	?										
7	?	?	?										Enter 1 st number:
8	1	?	?										
9	1	?	?										Enter 2 nd number:
10	1	1	?										
11	1	1	?										Enter 3 rd number:
12	1	1	1										
13	1	1	1										
14	1	1	1	Т									
15	1	1	1		Т								
16	1	1	1			Т							
17	1	1	1										Increasing order will be 1, 1, 1
40	1	1	1										

- 1. // Task 05
- 2. // Name: Sourav Malani
- 3. // Roll #: i19-0434
- 4. // Declaring variables
- 5. Declare Real num1, num2, small
- **6.** // Prompt the user for two numbers
- 7. Display "Enter number 1:"
- 8. Input num1
- 9. Display "Enter number 2:"
- 10. Input num2
- 11. If num1<num2 Then
- 12. set small = num1
- 13. Display "The smaller of two is", small
- 14. Else
- 15. If num2<num1 Then
- 16. set small = num2
- 17. Display "The smaller of two is", small
- 18. // Here only possibility of numbers is to be equal.
- 19. Else
- 20. Display "Numbers are equal"
- 21. End If
- 22. End If

#	num1	num2	small	num1 <num2< th=""><th>num2<num1< th=""><th>Output</th></num1<></th></num2<>	num2 <num1< th=""><th>Output</th></num1<>	Output
1	?	?	?			
2	?	?	?			
3	?	?	?			
4	?	?	?			
5	?	?	?			
6	?	?	?			
7	?	?	?			Enter number 1:
8	8	?	?			
9	8	?	?			Enter number 2:
10	8	8	?			
11	8	8	?	F		
15	8	8	?		F	
20	8	8	?			Numbers are equal
22	8	8	?			

#	num1	num2	small	num1 <num2< th=""><th>num2<num1< th=""><th>Output</th></num1<></th></num2<>	num2 <num1< th=""><th>Output</th></num1<>	Output
1	?	?	?			
2	?	?	?			
3	?	?	?			
4	?	?	?			
5	?	?	?			
6	?	?	?			
7	?	?	?			Enter number 1:
8	81	?	?			
9	81	?	?			Enter number 2:
10	81	69	?			
11	81	69	?	F		
15	81	69	?		Т	
16	81	69	69			
17	81	69	69			The smaller of two is 69
22	81	69	69			

#	num1	num2	small	num1 <num2< th=""><th>num2<num1< th=""><th>Output</th></num1<></th></num2<>	num2 <num1< th=""><th>Output</th></num1<>	Output
1	?	?	?			
2	?	?	?			
3	?	?	?			
4	?	?	?			
5	?	?	?			
6	?	?	?			
7	?	?	?			Enter number 1:
8	8	?	?			
9	8	?	?			Enter number 2:
10	8	69	?			
11	8	69	?	Т		
12	8	69	8		Т	
13	8	69	8			The smaller of two is 8
22	8	69	8			

- 1. //Task 06
- 2. // Name: Sourav Malani
- 3. //Roll#: i190434
- 4. //Declaring variables
- 5. Declare Real a, b, c, small
- 6. //Taking inputs
- 7. Display "Enter 1st number:"
- 8. Input a
- 9. Display "Enter 2nd number:"
- 10. Input b
- 11. Display "Enter 3rd number:"
- 12. Input c
- 13. //Checking
- 14. If a<=b Then
- 15. If $a \le c$ Then
- 16. set small=a
- 17. End If
- 18. End If
- 19. If b<=a Then
- 20. If $b \le c$ Then
- 21. set small = b
- 22. End If
- 23. End If
- 24. If $c \le a$ Then
- 25. If $c \le b$ Then
- 26. set small = c
- 27. End If
- 28. End If
- 29. Display "The smallest number is", small

#Dry Run 1. If 2 or all 3 number are same then. it shows one of the smallest.

#	a	b	c	small	a<=b	a<=c	b<=a	b<=c	c<=a	c<=b	Output
1	?	?	?	?							_
2	?	?	?	?							
3	?	?	?	?							
4	?	?	?	?							
5	?	?	?	?							
6	?	?	?	?							
7	?	?	?	?							Enter 1 st number:
8	10	?	?	?							
9	10	?	?	?							Enter 2 nd number:
10	10	10	?	?							
11	10	10	?	?							Enter 3 rd number:
12	10	10	10	?							
13	10	10	10	?							
14	10	10	10	?	T						
15	10	10	10	?		T					
16	10	10	10	10							
17	10	10	10	10							
18	10	10	10	10					T		
29	10	10	10	10							The smallest number is 10

#Dry Run 2.

#	a	b	c	small	a<=b	a<=c	b<=a	b<=c	c<=a	c<=b	Output
1	?	?	?	?							
2	?	?	?	?							
3	?	?	?	?							
4	?	?	?	?							
5	?	?	?	?							
6	?	?	?	?							
7	?	?	?	?							Enter 1 st number:
8	10	?	?	?							
9	10	?	?	?							Enter 2 nd number:
10	10	2	?	?							
11	10	2	?	?							Enter 3 rd number:
12	10	2	7	?							
13	10	2	7	?							
14	10	2	7	?	F						
19	10	2	7	?			T				
20	10	2	7	?				T			
21	10	2	7	2					T		
29	10	2	7	2							The smallest number is 2

#Dry Run 3.

#	a	b	c	small	a<=b	a<=c	b<=a	b<=c	c<=a	c<=b	Output
1	?	?	?	?							
2	?	?	?	?							
3	?	?	?	?							
4	?	?	?	?							
5	?	?	?	?							
6	?	?	?	?							
7	?	?	?	?							Enter 1 st number:
8	10	?	?	?							
9	10	?	?	?							Enter 2 nd number:
10	10	10	?	?							
11	10	10	?	?							Enter 3 rd number:
12	10	10	7	?							
13	10	10	7	?							
14	10	10	7	?	T						
15	10	10	7	?		F					
20	10	10	7	?				T			
21	10	10	7	2					T		
29	10	10	7	2							The smallest number is 2

- 1. // Task 07
- 2. // Roll#: i19-0434
- 3. // Name: Sourav Malani
- 4. // Declaring Variables
- 5. Declare Integer a
- 6. Declare Integer b
- 7. //Taking Inputs
- 8. Display "Enter 1st number:"
- 9. Input a
- 10. Display "Enter 2nd number:"
- 11. Input b
- 12. // Checking
- 13. If a==b Then
- 14. Display "Numbers are same", a, b
- 15. Else
- 16. If a>b Then
- 17. Display "Decreasing Order is:", a, b
- 18. Else
- 19. Display "Decreasing Order is", b, a
- 20. End If
- 21. End If

#	а	b	a==b	a>b	Output
1	?	?			
2	?	?			
3	?	?			
4	?	?			
5	?	?			
6	?	?			
7	?	?			
8	?	?			Enter 1 st number:
9	4	?			
10	4	?			Enter 2 nd number:
11	4	5			
12	4	5			
13	4	5	F		
16	4	5		F	
18	4	5			
19	4	5			Decreasing Order is 5, 4
20	4	5			
21	4	5			

#	а	b	a==b	a>b	Output
1	?	?			
2	?	?			
3	?	?			
4	?	?			
5	?	?			
6	?	?			
7	?	?			
8	?	?			Enter 1 st number:
9	4	?			
10	4	?			Enter 2 nd number:
11	4	4			
12	4	4			
13	4	4	Т		
14	4	4			Numbers are same 4, 4
21	4	4			

#	а	b	a==b	a>b	Output
1	?	?			
2	?	?			
3	?	?			
4	?	?			
5	?	?			
6	?	?			
7	?	?			
8	?	?			Enter 1 st number:
9	14	?			
10	14	?			Enter 2 nd number:
11	14	5			
12	14	5			
13	14	5	F		
16	14	5		Т	
17	14	5			Decreasing Order is 14, 5
21	14	5			

```
1. // Task 08
2. // Roll #: i19-0434
3. // Name: Sourav Malani
4. // Declaring variables
5. Declare Real a, b, c
6. // Taking Inputs
7. Display "Enter 1st number"
8. Input a
9. Display "Enter 2<sup>nd</sup> number"
10. Input b
11. Display "Enter 3rd number"
12. Input c
13. // Checking
14. If a \le b Then
15.
      If a<=c Then
16.
         If b<=c Then
17.
           Display "Decreasing order will be", c, b, a
18.
         Else
19.
              Display "Decreasing order will be", b, c, a
20.
         End If
21.
      End If
22. End If
23. If b \le a Then
24.
       If b<=c Then
25.
          If a<=c Then
            Display "Decreasing order will be", c, a, b
26.
27.
          Else
                 Display "Decreasing order will be", a, c, b
28.
29.
          End If
30.
       End If
31. End If
32. If c \le a Then
33.
       If c<=b Then
          If a<=b Then
34.
35.
              Display "Decreasing order will be", b, a, c
36.
               Display "Decreasing order will be", a, b, c
37.
38.
          End If
39.
       End If
```

40. End If

#	а	b	С	a<=b	a<=c	b<=c	b<=a	b<=c	a<=c	c<=a	c<=b	a<=b	Output
1	?	?	?										
2	?	?	?										
3	?	?	?										
4	?	?	?										
5	?	?	?										
6	?	?	?										
7	?	?	?										
8	7	?	?										
9	7	?	?										
10	7	8	?										
11	7	8	?										
12	7	8	14										
13	7	8	14										
14	7	8	14	Т									
15	7	8	14		Т								
16	7	8	14			Т							
17	7	8	14										Decreasing order will be 14, 8, 7
40	7	8	14										

				_	l		_			l		_	_
#	а	b	С	a<=b	a<=c	b<=c	b<=a	b<=c	a<=c	c<=a	c<=b	a<=b	Output
1	?	?	?										
2	?	?	?										
3	?	?	?										
4	?	?	?										
5	?	?	?										
6	?	?	?										
7	?	?	?										
8	7	?	?										
9	7	?	?										
10	17	18	?										
11	17	18	?										
12	17	18	14										
13	17	18	14										
14	17	18	14	Т									
15	17	18	14		F								
16	17	18	14		-								
22	17	18	14										
23	17	18	14				F						
31	17	18	14				-						
32	17	18	14							Т			
33	17	18	14								Т		
34	17	18	14								•	Т	
35	17	18	14									1	Decreasing order will
33	1,	10	14										be 18, 17, 14
40	17	18	14										

#	а	b	С	a<=b	a<=c	b<=c	b<=a	b<=c	a<=c	c<=a	c<=b	a<=b	Output
1	?	?	?										•
2	?	?	?										
3	?	?	?										
4	?	?	?										
5	?	?	?										
6	?	?	?										
7	?	?	?										
8	7	?	?										
9	7	?	?										
10	17	14	?										
11	17	14	?										
12	17	14	14										
13	17	14	14										
14	17	14	14	F									
23	17	14	14				Т						
24	17	14	14					Т					
25	17	14	14						F				
27	17	14	14										
28	17	14	14										Decreasing order will be 17, 14, 14
40	17	18	14										

- 1. // Task 09
- 2. // Roll #: i19-0434
- 3. // Name: Sourav Malani
- 4. // Declaring variables
- 5. Declare Real a
- 6. Declare Real b
- 7. Declare Real c
- 8. // Taking Inputs
- 9. Display "Enter 1st number:"
- 10. Input a
- 11. Display "Enter 2nd number:"
- 12. Input b
- 13. Display "Enter 3rd number:"
- 14. Input c
- 15. Display, "The Average of three numbers is", (a + b + c)/3

#	a	b	c	Output
1	?	?	?	_
2	?	?	?	
3	?	?	?	
4	?	?	?	
5	?	?	?	
6	?	?	?	
7	?	?	?	
8	?	?	?	
9	?	?	?	Enter 1 st number:
10	0	?	?	
11	0	?	?	Enter 2 nd number:
12	0	2	?	
13	0	2	?	Enter 3 rd number:
14	0	2	7	
15	0	2	7	The Average of three numbers is 3

#	a	b	c	Output
1	?	?	?	
2	?	?	?	
3	?	?	?	
4	?	?	?	
5	?	?	?	
6	?	?	?	
7	?	?	?	
8	?	?	?	
9	?	?	?	Enter 1 st number:
10	0	?	?	
11	0	?	?	Enter 2 nd number:
12	0	2	?	
13	0	2	?	Enter 3 rd number:
14	0	2	7	
15	0	2	7	The Average of three
				numbers is 3

#	a	b	c	Output
1	?	?	?	
2	?	?	?	
3	?	?	?	
4	?	?	?	
5	?	?	?	
6	?	?	?	
7	?	?	?	
8	?	?	?	
9	?	?	?	Enter 1 st number:
10	2	?	?	
11	2	?	?	Enter 2 nd number:
12	2	9	?	
13	2	9	?	Enter 3 rd number:
14	2	9	7	
15	2	9	7	The Average of three numbers is 6

```
1. //Task 10
2. //Name: Sourav Malani
3. //Roll #: i19-0434
4. Declare score
5. //Taking input
6. Display "Tell me your score and I'll tell you the grade:"
7. Input score
8. //Conditions
9. If score \geq=90 Then
      Display "You got A+"
10.
11. Else
12.
        If score>=80 Then
13.
          Display "You got A"
14.
        Else
            If score>=70 Then
15.
              Display "You got B"
16.
17.
            Else
18.
               If score>=60 Then
                   Display "You got C"
19.
20.
               Else
21.
                   If score>=50
                      Display "Oops! You got D"
22.
23.
                   Else
                       Display "You got failed. F"
24.
25.
                   End If
26.
               End If
27.
            End If
28.
        End If
29. End If
```

Dry Run 1

#	score	score >=90	score >=80	score >=70	score >=60	score >=50	Output
1	?						
2	?						
3	?						
4	?						
5	?						
6	?						
7	72						
8	72						
9	72	F					
11	72						
12	72		F				
14	72						
15	72			Т			
16	72						You got B
29	72						

Dry Run 2

#	score	score >=90	score >=80	score >=70	score >=60	score >=50	Output
1	?						
2	?						
3	?						
4	?						
5	?						
6	?						
7	45						
8	45						
9	45	F					
11	45						
12	45		F				
14	45						
15	45			F			
17	45						
18	45				F		
20	45						
21	45					F	
23	45						
24	45						You got failed. F

Dry Run 3

#	score	score >=90	score >=80	score >=70	score >=60	score >=50	Output
1	?						
2	?						
3	?						
4	?						
5	?						
6	?						
7	99						
8	99	T					
9	99						
10	99						You got A+
29	99						

1. //Task 11 2. //Name: Sourav Malani 3. //Roll #: i19-0434 4. Declare Integer age 5. //Taking input 6. Display "Tell me your age:" 7. Input age 8. //Conditions 9. If age >=65 Then Display "You are a senior citizen." 10. 11. Else 12. If age>=18 Then Display "You are an Adult." 13. 14. Else If age>=1 Then 15. Display "You are a Child" 16.

"Input a valid age."

17. 18.

19.

20.

21 65

21. End If

age age>=65 age>=18 age>=1 Output ? 1 2 ? 3 ? 4 ? 5 ? ? 6 7 65 65 65 T 10 65 You are a senior citizen.

End If

End If

#	age	age>=65	age>=18	age>=1	Output
1	?			g	
2	?				
3	?				
4	?				
5	?				
6	?				
7	0				
8	0				
9	0	F			
11	0				
12	0		F		
14	0				
15	0			F	
18	0				Input a valid age.
21	0				

#	age	age>=65	age>=18	age>=1	Output
1	?				
2	?				
3	?				
4	?				
5	?				
6	?				
7	14				
8	14				
9	14	F			
11	14				
12	14		F		
14	14				
15	14			T	
16	14				You are a child
21	14				

```
1. //Task 12
2. //Roll#: i19-0434
3. //Name: Sourav Malani
4. //Declaring Variables
5. Declare Real a, b
6. Declare String c
7. // Inputs
8. Display "Enter 1st number:"
9. Input a
10. Display "Enter 2<sup>nd</sup> number"
11. Input b
12. Display "Enter the operation you want to perform, (+, -, *, /):"
13. Input c
14. If c== "+" Then
15. Display "Answer is", a + b
16. Else
17.
        If c== "-" Then
           Display "Answer is", a-b
18.
19.
        Else
            If c== "*" Then
20.
               Display "Answer is", a*b
21.
22.
            Else
23.
                 If c== "/" Then
24.
                   If b==0 Then
25.
                      Display "Division by zero not possible."
26.
27.
                       Display "Answer is", a/b
28.
                   End If
29.
                 Else
30.
                     Display "Enter a valid input."
31.
            End If
32.
        End If
33. End If
```

#	a	b	c	c== "+"	c== "-"	c== "*"	c== "/"	b==0	Output
1	?	?	?						-
2	?	?	?						
3	?	?	?						
4	?	?	?						
5	?	?	?						
6	?	?	?						
7	?	?	?						
8	?	?	?						
9	5	?	?						
10	5	?	?						
11	5	5	?						
12	5	5	?						
13	5	5	/						
14	5	5	/	F					
17	5	5	/		F				
20	5	5	/			F			
23	5	5	/				T		
24	5	5	/					F	
26	5	5	+						
27	5	5	+						Answer is 1.0

#	a	b	c	c== "+"	c== "-"	c== "*"	c== "/"	b==0	Output
1	?	?	?						
2	?	?	?						
3	?	?	?						
4	?	?	?						
5	?	?	?						
6	?	?	?						
7	?	?	?						
8	?	?	?						
9	15	?	?						
10	15	?	?						
11	15	5	?						
12	15	5	?						
13	15	5	-						
14	15	5	-	F					
17	15	5	-		T				
18	15	5	-						Answer is 10.0
32	15	5	-				T		

#	a	b	c	c== "+"	c== "-"	c== "*"	c== "/"	b==0	Output
1	?	?	?						
2	?	?	?						
3	?	?	?						
4	?	?	?						
5	?	?	?						
6	?	?	?						
7	?	?	?						
8	?	?	?						
9	15	?	?						
10	15	?	?						
11	15	5	?						
12	15	5	?						
13	15	5	+						
14	15	5	+	T					
15	15	5	+						Answer is 20.0
32	15	5	+				Т		

```
1. //Task 13
2. //Roll#: i19-0434
3. //Name: Sourav Malani
4. //Variables
5. Declare Integer count
6. Declare Integer y
7. Declare Integer x //x will be 2 if output is 1 2 1
8. set count=0
9. set y=1
10. //Input
11. Display "Enter the number please:"
12. Input x
13. While y! = (x+1) Then // If x is 3 then this loop runs 3 times.
14.
          DisplayOnSameLine y, "" // if x is 3 then displays 1 2 3
15.
          set y=y+1
          set count= count+1
16.
17.
                                //if x is 3 then count becomes 3 in end.
          If count==x Then
18.
            set count=count-1
19.
            While count != 0 Then // keep decreasing count and display it till it is not equal to zero.
20.
                   DisplayOnSameLine count, ""
21.
                   set count = count-1
            End While
22.
23.
          End If
```

24. End While

#	y	X	count	While $y! = (x+1)$	If count==x	While count! = 0	Output
1	?	?	?				
2	?	?	?				
3	?	?	?				
4	?	?	?				
5	?	?	?				
6	?	?	?				
7	?	?	?				
8	?	?	0				
9	1	?	0				
10	1	?	0				
11	1	?	0				Enter the number please:
12	1	5	0				
13	1	5	0	1! = 6 T			
14	1	5	0				1
15	2	5	0				
16	2	5	1		_		
17	2	5	1		F		
13	2	5	1	2! = 6 T			
14	2	5	1				1 2
15	3	5	1				
16	3	5	2		7		
17	3	5	2	21.6	F		
13	3	5	2	3 != 6 T			1.2.2
14	3	5	2				1 2 3
15	4	5	2				
16	4	5	3		Г		
17	4	5	3	41.CT	F		
13	4	5	3	4 !=6 T			1 2 2 4
14 15	5	5	3				1 2 3 4
16	5	5	4				
17	5	5	4		F		
13	5	5	4	5!=6 T	Г		
14	5	5	4	J:-0 1			12345
15	6	5					1 2 3 4 3
16	6	5	5				
17	6	5	5		Т		
18	6	5	4		1		
19	6	5	4			Т	
20	6	5	4			1	123454
21	6	4	3				123131
19	6	4	3			Т	
20	6	4	3			*	1234543
21	6	4	2				120.013
19	6	4	2			Т	
20	6	4	2				12345432
21	6	4	1				
19	6	4	1			Т	
20	6	4	1				123454321
21	6	4	0				
19	6	4	0			F	
22	6	4	0				
23	6	4	0				
24	6	4	0				
<u></u>	U		U	I	I		I .

#	y	X	count	While $y! = (x+1)$	If count==x	While count! = 0	Output
1	?	?	?	•			
2	?	?	?				
3	?	?	?				
4	?	?	?				
5	?	?	?				
6	?	?	?				
7	?	?	?				
8	?	?	0				
9	1	?	0				
10	1	?	0				
11	1	?	0				
12	1	2	0				
1 3	1	2	0	1! =3 T			
14	1	2	0				1
15	2	2	0				
16	2	2	1				
17	2	2	1		F		
13	2	2	1	2! =3 T			
14	2	2	1				1 2
15	3	2	1				
16	3	2	2				
17	3	2	2		T		
18	3	2	1				
19	3	2	1			Т	
20	3	2	1				1 2 1
21	3	2	0				
19	3	2	0			F	
24	3	2	0				

#	y	X	count	While $y! = (x+1)$	If count==x	While count! = 0	Output
1	?	?	?				
2	?	?	?				
3	?	?	?				
4	?	?	?				
5	?	?	?				
6	?	?	?				
7	?	?	?				
8	?	?	0				
9	1	?	0				
10	1	?	0				
11	1	?	0				
12	1	1	0				
13	1	1	0	1 != 2 T			
14	1	1	0				1
15	2	1	0				
16	2	1	1				
17	2	1	1		T		
18	2	1	0				
19	2	1	0			F	
24	2	1	0				

```
1. //Task 14
2. //Roll#: i1
```

- 2. //Roll#: i19-0434
- 3. //Name: Sourav Malani
- 4. //Declaring variable
- 5. Declare Integer x // User Input
- 6. Declare Integer F //F is factorial here.
- 7. Declare Real y //This is to keep running while loop.
- 8. Display "Enter the number:" // Taking Input
- 9. Input x
- 10. set F = x //Basically the algorithm is to multiply number given to previous numbers.
- 11. set y = 0
- 12. If x>0 Then //If positive number.
- 13. While y = (x-1) //This loop calculates factorial.
- 14. set y=y+1 //if number, to be factorized, were 3 then
- 15. set F = F * (x-y) // 3*(3-1) and then 6*(3-2).
- 16. End While
- 17. Display F, "is factorial of ", x
- 18. Else
- 19. If x==0 Then //If user enters 0.
- 20. Display "Factorial is 1."
- 21. Else //If the number is negative.
- 22. Display "Factorial not possible."
- 23. End If
- 24. End If

#	X	F	y	If x>0	If x==0	Else(x<0)	y !=(x-1)	Output
1	?	?	?					
2	?	?	?					
3	?	?	?					
4	?	?	?					
5	?	?	?					
6	?	?	?					
7	?	?	?					
8	?	?	?					Enter the number:
9	4	?	?					
10	4	4	?					
11	4	4	0					
12	4	4	0	T				
13	4	4	0				T	
14	4	4	1					
15	4	12	1					
13	4	12	1				Т	
14	4	12	2					
15	4	24	2					
13	4	24	2				T	
14	4	24	3					
15	4	24	3					
13	4	24	3				F	
16	4	24	3					
17	4	24	3					24 is factorial of 4

#	X	F	y	x>0	x==0	Else(x<0)	y != (x-1)	Output
1	?	?	?				_	_
2	?	?	?					
3	?	?	?					
4	?	?	?					
5	?	?	?					
6	?	?	?					
7	?	?	?					
8	?	?	?					Enter the number:
9	0	?	?					
10	0	0	?					
11	0	0	0					
12	0	0	0	F				
18	0	0	0					
19	0	0	0		Т			
20	0	0	0					Factorial is 1.

#	X	F	y	x>0	x==0	Else(x<0)	y != (x-1)	Output
1	?	?	?					
2	?	?	?					
3	?	?	?					
4	?	?	?					
5	?	?	?					
6	?	?	?					
7	?	?	?					
8	?	?	?					Enter the number:
9	-1	?	?					
10	-1	-1	?					
11	-1	-1	0					
12	-1	-1	0	F				
18	-1	-1	0		F			
20	-1	-1	0					
20	-1	-1	0			Т		
21	-1	-1	0					
22	-1	-1	0					Factorial not possible
24	-1	-1	0					

```
1. //Task 15
                      I have split the series into two series. S2=5+7+9+11+..... and
                       S1= -10+15-20+25-.....
2. // Roll#: i19-0434
                            And used formulas of nth term for each. for Series2= 2n2+3
3. // Name: Sourav Malani
                                    and for series 1 = (-1) ^n1 * (5n1+5)
4. // Declare variables
5. Declare Real sum1, sum2, n1, n2, x, i
                                           //n1 and n2 represents number of terms.
6. Display "Enter x:" // x is the term no up to which user want sum.
7. Input x
8. set n1=0
9. set n2=0
10. set sum1=0
11. set sum2=0
12. For i=1 To x
13.
       If i\%2 == 0 Then //If number is even.
14.
         set n1 = n1 + 1
15.
         set sum1= ((-1) **(n1)) *(5*n1+5) + sum1 // sum1= (-1) ^n1 * (5n1+5) + sum1
16.
       Else
17
           set n^2 - n^2 + 1
                                                            m2
```

17. Set 112-	112 +1	
18. set sum	2 = 2*n2+3+sum2	// sum2 = 2(n2) + 3 + sun

- 19. End If
- 20. End For
- 21. Display "Sum up to", x, "will be", sum1+sum2

#	n1	n2	sum1	sum2	X	i =1 To x (i)	i%2 ==0	Output
1	?	?	?	?	?	- ()		<u>F</u>
2	?	?	?	?	?			
3	?	?	?	?	?			
4	?	?	?	?	?			
5	?	?	?	?	?			
6	?	?	?	?	?			Enter x:
7	?	?	?	?	3			
8	0	?	?	?	3			
9	0	0	?	?	3			
10	0	0	0	?	3			
11	0	0	0	0	3			
12	0	0	0	0	3	1		
13	0	0	0	0	3	1	F	
16	0	0	0	0	3	1	Else	
17	0	1	0	0	3	1		
18	0	1	0	5	3	1		
12	0	1	0	5	3	2		
13	0	1	0	5	3	2	Т	
14	1	1	0	5	3	2		
15	1	1	-10	5	3	2		
12	1	1	-10	5	3	3		
13	1	1	-10	5	3	3	F	
16	1	1	-10	5	3	3	Else	
17	1	2	-10	5	3	3		
18	1	2	-10	12	3	3		
19	1	2	-10	12	3	3		
20	1	2	-10	12	3	3		a 111 f
21	1	2	-10	12	3	3		Sum up to 3 will be 2

#	n1	n2	sum1	sum2	X	i =1 To x (i)	i%2 ==0	Output
1	?	?	?	?	?			
2	?	?	?	?	?			
3	?	?	?	?	?			
4	?	?	?	?	?			
5	?	?	?	?	?			
6	?	?	?	?	?			Enter x:
7	?	?	?	?	1			
8	0	?	?	?	1			
9	0	0	?	?	1			
10	0	0	0	?	1			
11	0	0	0	0	1			
12	0	0	0	0	1	1		
13	0	0	0	0	1	1	F	
16	0	0	0	0	1	1	Else	
17	0	1	0	0	1	1		
18	0	1	0	5	1	1		
19	0	1	0	5	1	1		
20	0	1	0	5	1			
21	1	1	0	5	1			Sum up to 1 will be 5

#	n1	n2	sum1	sum2	X	i =1 To x (i)	i%2 ==0	Output
1	?	?	?	?	?			
2	?	?	?	?	?			
3	?	?	?	?	?			
4	?	?	?	?	?			
5	?	?	?	?	?			
6	?	?	?	?	?			Enter x:
7	?	?	?	?	2			
8	0	?	?	?	2			
9	0	0	?	?	2			
10	0	0	0	?	2			
11	0	0	0	0	2			
12	0	0	0	0	2	1		
13	0	0	0	0	2	1	F	
16	0	0	0	0	2	1	Else	
17	0	1	0	0	2	1		
18	0	1	0	5	2	1		
12	0	1	0	5	2	2		
13	0	1	0	5	2	2	T	
14	1	1	0	5	2	2		
15	1	1	-10	5	2	2		
19	1	1	-10	5	2			
20	1	1	-10	5	2			
21	1	1	-10	5	2			Sum up to 2 will be -5

- 1. //Task 16
- 2. //Roll#: i19-0434
- 3. //Name: Sourav Malani
- 4. Declare Real sales
- 5. set sales = 0 // setting sales initially to 0 for while loop to run first.
- 6. While sales>=0
- 7. Display "Enter sales in rupees (negative value to exit): "
- 8. Input sales
- 9. If sales >=0 Then /* In case user puts negative value in first attempt then line 10 will show salary, which we don't want, and then program will exit. So, I put this if statement here.

 */
- 10. Display "Salary is", 2000+0.09*sales
- 11. End If
- 12. End While

#	sales	While sales >=0	If sales >=0	Output
1	?			
2	?			
3	?			
4	?			
5	0			
6	0	T		
7	0			Enter sales in rupees (negative value to exit):
8	-1			
9	-1		F F	
10	-1			This line will not execute
11	-1			
12	-1			

#	sales	While sales >=0	If sales >=0	Output
1	?			
2	?			
3	?			
4	?			
5	0			
6	0	T		
7	0			Enter sales in rupees (negative value to exit):
8	50000			
9	50000		T	
10	50000			Salary is 4500
11	50000			
6	50000	T		
7	50000			Enter sales in rupees (negative value to exit):
8	0			
9	0		T	
10	0			Salary is 2000
11	0			
6	0	T		
7	0			Enter sales in rupees (negative value to exit):
8	-1			
9	-1		F	
6	-1	F		
12	-1			

#	sales	While sales >=0	If sales >=0	Output
1	?			
2	?			
3	?			
4	?			
5	0			
6	0	T		
7	0			Enter sales in rupees (negative value to exit):
8	50000			
9	50000		T	
10	50000			Salary is 6500
11	50000			
6	50000	T		
7	50000			Enter sales in rupees (negative value to exit):
8	60000			
9	60000		T	
10	60000			Salary is 7400
11	60000			
6	60000	T		
7	60000			Enter sales in rupees (negative value to exit):
8	70000			
9	70000		Т	
10	70000			Salary is 8300
11	70000			
6	70000	Т		
7	70000			Enter sales in rupees (negative value to exit):
8	-1			
9	-1		F	
11	-1			
6	-1	F		
12	-1			

```
1. // Task 17
2. // Name: Sourav Malani
3. // Roll#: i19-0434
4. //Variables
5. Declare Real hrs, rate
6. set hrs=1
7. While hrs != -1
          Display "Enter the hourly rate: "
8.
9.
          Input rate
          Display "Enter the hours worked last week (-1 hours to end): "
10.
11.
          Input hrs
          If hrs>40 Then
12.
            Display "Salary is ",40*rate+(hrs- 40) *rate*.5
13.
14.
          Else
15.
              If hrs>0 Then
                 Display "Salary is", hrs*rate
16.
17.
              End If
18.
          End If
19. End While
```

#	hrs	rate	While hrs=-	If hrs>40	If hrs>0	Output
1	?	?				
2	?	?				
3	?	?				
4	?	?				
5	?	?				
6	1	?				
7	1	?	T			
8	1	?				Enter the hourly rate:
9	1	100				
10	1	100				Enter the hours worked last week (-1 hours to end):
11	41	100				
12	41	100		T		
13	41	100				Salary is 4050
18	41	100				
7	41	100	T			
8	41	100				Enter the hourly rate:
9	41	500				
10	41	500				Enter the hours worked last week (-1 hours to end):
11	10	500				
12	10	500		F		
14	10	500				
15	10	500			T	
16	10	500				Salary is 5000
18	10	500				
7	10	500	T			
8	10	500				Enter the hourly rate:
9	10	100				
10	10	100				Enter the hours worked last week (-1 hours to end):
11	-1	100				
12	-1	100		F		
15	-1	-1			F	
7	-1	-1	F			

		19	-1	-1					
--	--	----	----	----	--	--	--	--	--

#	hrs	rate	While hrs	If	If	Output
			=-1	hrs>40	hrs>0	_
1	?	?				
2	?	?				
3	?	?				
4	?	?				
5	?	?				
6	1	?				
7	1	?	T			
8	1	?				Enter the hourly rate:
9	1	4				
10	1	4				Enter the hours worked last week (-1 hours to end):
11	-1	4				
12	-1	4		F		
15	-1	4			F	
18	-1	4				
7	-1	4	F			
19	-1	4				

#	hrs	rate	While hrs	If	If	Output
			=-1	hrs>40	hrs>0	
1	?	?				
2	?	?				
3	?	?				
4	?	?				
5	?	?				
6	1	?				
7	1	?	T			
8	1	?				Enter the hourly rate:
9	1	8				
10	1	8				Enter the hours worked last week (-1 hours to end):
11	9	8				
12	9	8		F		
15	9	8			T	
16	9	8				Salary is 72
17	9	8				
7	9	8	T			
8	9	8				Enter the hourly rate:
9	9	4				
10	9	4				Enter the hours worked last week (-1 hours to end):
11	-1	4				
12	-1	4		F		
15	-1	4			F	
7	-1	4	F			
19	-1	4				

- 1. //Task 18
- 2. //Name: Sourav Malani
- 3. //Roll#: i19-0434
- 4. //Declare variables
- 5. Declare Integer number, largest
- 6. set largest = 0
- 7. set number = 1
- 8. While number>=0
- 9. Display "Enter # of units sold (negative value to exit): "
- 10. Input number
- 11. **If** number >= largest Then
- 12. set largest = number
- 13. End If
- 14. End While
- 15. Display "The largest number of units sold of all is", largest

Dry Run 01

#	number	Large	number>=0	number>=largest	Output
		st			
1	?	?			
2	?	?			
3	?	?			
4	?	?			
5	?	?			
6	?	0			
7	1	0			
8	1	0	T		
9	1	0			Enter # of units sold (negative value to exit):
10	45000	0			_
11	45000	0		Т	
12	45000	45000			
13	45000	45000			
8	45000	45000	T		
9	45000	45000			Enter # of units sold (negative value to exit):
10	50000	45000			
11	50000	45000		Т	
12	50000	50000			
13	50000	50000			
8	50000	50000	T		
9	50000	50000			Enter # of units sold (negative value to exit):
10	-1	50000			
11	-1	50000		F	
8	-1	50000	F		
14	-1	50000			
15	-1	50000			The largest number of units sold of all is 50000

Dry Run 02

#	number	Large st	number>=0	number>=largest	Output
1	?	?			
2	?	?			
3	?	?			
4	?	?			
5	?	?			
6	?	0			
7	1	0			
8	1	0	T		
9	1	0			Enter # of units sold (negative value to exit):
10	50	0			
11	50	0		Т	
12	50	50			
13	50	50			
8	50	50	T		
9	50	50			Enter # of units sold (negative value to exit):
10	40	50			
11	40	50		F	
13	40	50			
8	40	50	T		
9	40	50			Enter # of units sold (negative value to exit):
10	-1	50			
11	-1	50		F	
8	-1	50	F		
14	-1	50			
15	-1	50			The largest number of units sold of all is 50

Dry Run 03 (In this dry run I want to show that if I input a negative number in 1st attempt then program, will show 0 as the largest # of unit sold).

#	number	Large st	number>=0	number>=largest	Output
1	?	?			
2	?	?			
3	?	?			
4	?	?			
5	?	?			
6	?	0			
7	1	0			
8	1	0	Т		
9	1	0			Enter # of units sold (negative value to exit):
10	-1	0			
11	-1	0		F	
13	-1	0			
8	-1	0	F		
14	-1	0			
15	-1	0			The largest number of units sold of all is 0

```
1. //Task 19
2. //Roll#: i19-0434
3. //Name: Sourav Malani
4. //Declare variables
5. Declare Integer number, largest, secondlarge
6. set number = 1
7. set largest = 0
8. set secondlarge = 0
9. While number>=0
          Display "Enter # of units sold (negative value to exit): "
10.
11.
          Input number
          If number >= largest Then
12.
            set secondlarge = largest //storing number that was largest to another variable.
13.
14.
            set largest = number
15.
          Else
              If number < largest Then
16.
17.
                    If number > secondlarge Then
18.
                           secondlarge=number
19.
                    End If
              End If
20.
21.
          End If
22. End While
23. Display "The largest number of units sold of all is", largest
24. Display "Second largest is", secondlarge
```

#Dry run 1

#	number	largest	secondlarge	number>=0	number >= largest	number < largest	number > secondlarge	Output
1	?	?	?		largest	iai gest		
2	?	?	?					
3	?	?	?					
4	?	?	?					
5	?	?	?					
		?	?					
6	1		?					
7	1	0						
8	1	0	0	T				
9	1	0	0	T				F., 4 - , # - f - ,
10	1	0	0					Enter # of units sold (negative value to exit):
11	45	0	0					
12	45	0	0		T			
13	45	0	0					
14	45	45	0					
21	45	45	0					
9	45	45	0	T				
10	45	45	0					Enter # of units sold (negative value to exit):
11	40	45	0					,
12	40	45	0		F			
16	40	45	0			T		
17	40	45	0				T	
18	40	45	40					
21	40	45	40					
9	40	45	40	T				

10	40	45	40					Enter # of units sold (negative value to exit):
11	-1	45	40					(negative value to exit).
12	-1	45	40		F			
16	-1	45	40			T		
17	-1	45	40				F	
19	-1	45	40					
20	-1	45	40					
9	-1	45	40	F				
22	-1	45	40					
23	-1	45	40					The largest number of units sold of all is 45
24	-1	45	40					Second largest is 40

#Dry run 2

#	number	largest	secondlarge	number>=0	number >= largest	number < largest	number > secondlarge	Output
1	?	?	?					
2	?	?	?					
3	?	?	?					
4	?	?	?					
5	?	?	?					
6	1	?	?					
7	1	0	?					
8	1	0	0					
9	1	0	0	T				
10	1	0	0					Enter # of units sold (negative value to exit):
11	40	0	0					8
12	40	0	0		T			
13	40	0	0					
14	40	40	0					
21	40	40	0					
9	40	40	0	T				
10	40	40	0					Enter # of units sold (negative value to exit):
11	50	40	0					_
12	50	40	0		T			
13	50	40	40					
14	50	50	40					
9	50	50	40	T				
10	40	50	40					Enter # of units sold (negative value to exit):
11	-1	50	40					
12	-1	50	40		F			
16	-1	50	40			T		
17	-1	50	40				F	
21	-1	50	40					
9	-1	50	40	F				
22	-1	50	40					
23	-1	50	40					The largest number of units sold of all is 50
24	-1	50	40					Second largest is 40

#	number	largest	secondlarge	number>=0	number >= largest	number < largest	number > secondlarge	Output
1	?	?	?					
2	?	?	?					
3	?	?	?					
4	?	?	?					
5	?	?	?					
6	1	?	?					
7	1	0	?					
8	1	0	0					
9	1	0	0	T				
10	1	0	0					Enter # of units sold (negative value to exit):
11	10	0	0					
12	10	0	0		T			
13	10	0	0					
14	10	10	0					
21	10	10	0					
9	10	10	0	T				
10	10	10	0					Enter # of units sold (negative value to exit):
11	60	10	0					
12	60	10	0		T			
13	60	10	10					
14	60	60	10					
9	60	60	10	T				
10	60	60	10					Enter # of units sold (negative value to exit):
11	-1	60	10					
12	-1	60	10		F			
16	-1	60	10			T		
17	-1	60	10				F	
21	-1	60	10					
9	-1	60	10	F				
22	-1	60	10					
23	-1	60	10					The largest number of units sold of all is 60
24	-1	60	10					Second largest is 10

- 1. //Task 20
- 2. //Name: Sourav Malani
- 3. //Roll#: i19-0434
- 4. //Declare Variables.
- 5. Declare Real N, F //N=No of gallons it can hold. F=It can be driven in full tank.
- 6. Display "Enter number of gallons it can hold: "
- 7. Input N
- 8. Display "Enter number of miles it can be driven in full tank:"
- 9. Input F
- 10. Display "The car's mileage is ", F/N

#	N	F	Output
1	?	?	-
2	?	?	
3	?	?	
4	?	?	
5	?	?	
6	?	?	Enter number of gallons it can hold:
7	60	?	
8	60	?	Enter number of miles it can be driven in full tank:
9	60	500	
10	60	500	The car's mileage is 8.33

#	N	F	Output
1	?	?	Î
2	?	?	
3	?	?	
4	?	?	
5	?	?	
6	?	?	Enter number of gallons it can hold:
7	70	?	
8	70	?	Enter number of miles it can be driven in full tank:
9	70	650	
10	70	650	The car's mileage is 9.28

#	N	F	Output
1	?	?	
2	?	?	
3	?	?	
4	?	?	
5	?	?	
6	?	?	Enter number of gallons it can hold:
7	100	?	
8	100	?	Enter number of miles it can be driven in full tank:
9	100	1100	
10	100	1100	The car's mileage is 11

- 1. //Task 21
- 2. //Name: Sourav Malani
- 3. //Roll#: i19-0434
- 4. Declare Real total, counter, score
- 5. set total = 0
- 6. For counter = 1 To 5
- 7. Display "Enter score", counter, ":"
- 8. Input score
- 9. set total = total + score
- 10. End For
- 11. Display "Average is", total/5

#	total	counter	score	Output
1	?	?	?	_
2	?	?	?	
3	?	?	?	
4	?	?	?	
5	0	?	?	
6	0	1	?	
7	0	1	?	Enter score 1:
8	0	1	10	
9	10	1	10	
6	10	2	10	
7	10	2	10	Enter score 2:
8	10	2	20	
9	30	2	20	
6	30	3	20	
7	30	3	10	Enter score 3:
8	30	3	0	
9	30	3	0	
6	30	4	0	
7	30	4	0	Enter score 4:
8	30	4	5	
9	35	4	5	
6	35	5	5	
7	35	5	5	Enter score 5:
8	35	5	15	
9	50	5	15	
10	50	5	15	
11	50	5	15	Average is 10

#	total	counter	score	Output
1	?	?	?	_
2	?	?	?	
3	?	?	?	
4	?	?	?	
5	0	?	?	
6	0	1	?	
7	0	1	?	Enter score 1:
8	0	1	45	
9	45	1	45	
6	45	2	45	
7	45	2	45	Enter score 2:
8	45	2	10	
9	55	2	10	
6	55	3	10	
7	55	3	10	Enter score 3:
8	55	3	0	
9	55	3	0	
6	55	4	0	
7	55	4	0	Enter score 4:
8	55	4	15	
9	70	4	15	
6	70	5	15	
7	70	5	15	Enter score 5:
8	70	5	30	
9	100	5	30	
10	100	5	30	
11	100	5	30	Average is 20

#	total	counter	score	Output
1	?	?	?	
2	?	?	?	
3	?	?	?	
4	?	?	?	
5	0	?	?	
6	0	1	?	
7	0	1	?	Enter score 1:
8	0	1	0	
9	0	1	0	
6	0	2	0	
7	0	2	0	Enter score 2:
8	0	2	0	
9	0	2	0	
6	0	3	0	
7	0	3	0	Enter score 3:
8	0	3	0	
9	0	3	0	
6	0	4	0	
7	0	4	0	Enter score 4:
8	0	4	0	
9	0	4	0	
6	0	5	0	
7	0	5	0	Enter score 5:
8	0	5	0	
9	0	5	0	
10	0	5	0	
11	0	5	0	Average is 0

- 1. //Task 22
- 2. //Name: Sourav Malani
- 3. //Roll#: i19-0434
- 4. //Variables
- 5. Declare Real count, score, total
- 6. set count=0
- 7. set score=1
- 8. set total=0
- 9. While score>=0
- 10. Display "Enter the score:"
- 11. Input score
- 12. If score>=0 Then
- 13. set count = count+1
- 14. set total= total + score
- 15. End If
- 16. End While
- 17. If count>0 Then //In case user enters -ve number in 1st try
- 18. Display "Average of", count, "scores is", total/count
- 19. End If

#	count	score	total	While score>=0	If score>=0	count>0	Output
1	?	?	?				_
2	?	?	?				
3	?	?	?				
4	?	?	?				
5	?	?	?				
6	0	?	?				
7	0	1	?				
8	0	1	0				
9	0	1	0	T			
10	0	1	0				Enter the score:
11	0	45	0				
12	0	45	0		T		
13	1	45	0				
14	1	45	45				
9	1	45	45	T			
10	1	45	45				Enter the score:
11	1	5	45				
12	1	5	45		T		
13	2	5	45				
14	2	5	50				
9	2	5	50	T			
10	2	5	50				Enter the score:
11	2	-1	50				
12	2	-1	50		F		
9	2	-1	50	F			
17	2	-1	50			T	
18	2	-1	50				Average of 2 scores is 25
19	2	-1	50				

#	count	score	total	While score>=0	If score>=0	count>0	Output
1							_
2							
3							
4							
5							
6	0						
7	0	1					
8	0	1	0				
9	0	1	0	T			
10	0	1	0				Enter the score:
11	0	-1	0				
12	0	-1	0		F		
9	0	-1	0	F			
17	0	-1	0			F	
19	0	-1	0				

#	count	score	total	While score>=0	If score>=0	count>0	Output
1	?	?	?				_
2	?	?	?				
3	?	?	?				
4	?	?	?				
5	?	?	?				
6	0	?	?				
7	0	1	?				
8	0	1	0				
9	0	1	0	T			
10	0	1	0				Enter the score:
11	0	0	0				
12	0	0	0		Т		
13	1	0	0				
14	1	0	0				
9	1	0	0	Т			
10	1	0	0				Enter the score:
11	1	0	0				
12	1	0	0		Т		
13	2	0	0				
14	2	0	0				
9	2	0	0	T			
10	2	0	0				Enter the score:
11	2	-1	0				
12	2	-1	0		F		
9	2	-1	0	F			
17	2	-1	0			Т	
18	2	-1	0				Average of 2 scores is 0
19	2	-1	0				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

- 1. //Task 23
- 2. //Name: Sourav Malani
- 3. //Roll#: i19-0434
- 4. Declare Integer cookies
- 5. /*Before we start, lets calculate no of calories in one cookie.
- 6. 40 cookies = 10 servings
- 7. 4 cookies = 1 serving
- 8. 4 cookies = 1 serving = 300 calorie.
- 9. Therefore 1 cookies = 75 calorie. */
- 10. Display "Enter the number of cookies you ate:"
- 11. Input cookies
- 12. If cookies<0 Then
- 13. Display "Invalid number of cookies. Try again."
- 14. Else
- 15. If cookies>40 Then
- 16. Display "Invalid number of cookies. Try again."
- 17. Else
- 18. Display "You consumed ",75*cookies, "calories"
- 19. End If
- 20. End If

#	cookies	cookies<0	cookies>40	Output
1	?			_
2	?			
3	?			
4	?			
5	?			
6	?			
7	?			
8	?			
9	?			
10	?			Enter the number of cookies you ate:
11	30			
12	30	F		
15	30		F	
18	30			You consumed 2250 calories
19	30			
20	30			

#	cookies	Cookies<0	Cookies>40	Output
1	?			_
2	?			
3	?			
4	?			
5	?			
6	?			
7	?			
8	?			
9	?			
10	?			Enter the number of cookies you ate:
11	44			
12	44	F		
15	44		T	
16	44			Invalid number of cookies. Try again.
20	44			

#	cookies	Cookies<0	Cookies>40	Output
1	?			
2	?			
3	?			
4	?			
5	?			
6	?			
7	?			
8	?			
9	?			
10	?			Enter the number of cookies you ate:
11	-1			
12	-1	T		
13	-1			Invalid number of cookies. Try again.
20	-1			

- 1. //Task 24
- 2. //Name: Sourav Malani
- 3. //Roll#: i19-0434
- 4. Declare Real Celsius
- 5. Display "Enter Celsius to convert into Fahrenheit: "
- 6. Input Celsius
- 7. While Celsius < -273.15 //Minimum Celsius possible.
- 8. Display "Temperature conversion not possible, try again: "
- 9. Input Celsius
- 10. End While
- 11. Display "Temp in Fahrenheit is ", (1.8*Celsius+32)

#	Celsius	Celsius <-273.15	Output
1	?		
2	?		
3	?		
4	?		
5	?		Enter Celsius to convert into Fahrenheit:
6	45		
7	45	F	
11	45		Temp in Fahrenheit is 113

#	Celsius	Celsius <-273.15	Output
1	?		
2	?		
3	?		
4	?		
5	?		Enter Celsius to convert into Fahrenheit:
6	-300		
7	-300	T	
8	-300		Temperature conversion not possible, try again:
9	0		
7	0	F	
11	0		Temp in Fahrenheit is 32

#	Celsius	Celsius <-273.15	Output
1	?		
2	?		
3	?		
4	?		
5	?		Enter Celsius to convert into Fahrenheit:
6	100		
7	100	F	
11	100		Temp in Fahrenheit is 212

- 1. //Task 25
- 2. //Name: Sourav Malani
- 3. //Roll#: i19-0434
- 4. Declare Real weight, height, BMI
- 5. Display "Enter your weight in pounds: "
- 6. Input weight
- 7. Display "Enter your height in inches: "
- 8. Input height
- 9. While height <=0
- 10. Display "Enter correct height (>0) in inches: "
- 11. Input height
- 12. End While
- 13. set BMI = weight*(703/height**2)
- 14. If BMI>25 Then
- 15. Display "you are overweight."
- 16. Else
- 17. If BMI >= 18.5 Then
- 18. Display "Your weight is optimal.",
- 19. Else
- 20. Display "You are underweight."
- 21. End If
- 22. End If

#	weight	height	BMI	height<=0	BMI>25	BMI>=18.5	Output
1	?	?	?	_			_
2	?	?	?				
3	?	?	?				
4	?	?	?				
5	?	?	?				Enter your weight in pounds:
6	132	?	?				-
7	132	?	?				Enter your height in inches:
8	132	65	?				
9	132	65	?	F			
13	132	65	21.96				
14	132	65	21.96		F		
17	132	65	21.96			T	
18	132	65	21.96				Your weight is optimal.
21	132	65	21.96				-
22	132	65	21.96				

#	weight	height	BMI	height<=0	BMI>25	BMI>=18.5	Output
1	?	?	?				-
2	?	?	?				
3	?	?	?				
4	?	?	?				
5	?	?	?				Enter your weight in pounds:
6	160	?	?				
7	160	?	?				Enter your height in inches:
8	160	-11	?				
9	160	-11	?	T			
10	160	-11	?				Enter correct height (>0) in inches:
11	160	65	?				
12	160	65	?				
13	160	65	26.62				
14	160	65	26.62		T		
15	160	65	26.62				you are overweight.
21	160	65	26.62				
22	160	65	26.62				

#	weight	height	BMI	height<=0	BMI>25	BMI>=18.5	Output
1	?	?	?				•
2	?	?	?				
3	?	?	?				
4	?	?	?				
5	?	?	?				Enter your weight in pounds:
6	90	?	?				
7	90	?	?				Enter your height in inches:
8	90	60	?				
9	90	60	?	F			
12	90	60	?				
13	90	60	17.575				
14	90	60	17.575		F		
17	90	60	17.575			F	
20	90	65	17.575				You are underweight.
22	90	65	17.575				

```
1. //Task 26
2. //Name: Sourav Malani
3. //Roll#: i19-0434
4. Declare Integer units
5. Display "Enter number of units sold: "
6. Input units
7. While units<=0
          Display "Enter correct number of units sold (>0): "
8.
9. End While
10. If units>=100 Then
        Display "The total cost of purchase is $", (units*99) *0.5
11.
12. Else
13.
        If units>=50 Then
          Display "The total cost of purchase is $", (units*99) * 0.6
14.
15.
        Else
16.
            If units>=20 Then
               Display "The total cost of purchase is $", (units*99) *0.7
17.
18.
            Else
19.
                If units>=10 Then
20.
                    Display "The total cost of purchase is $", (units*99) *0.8
                Else
21.
22.
                    Display "The total cost of purchase is $", (units*99)
23.
24.
            End If
25.
        End If
26. End If
```

#	units	units<=0	units>=100	units>=50	units>=20	units>=10	Output
1	?						
2	?						
3	?						
4	?						
5	?						Enter number of units sold:
6	110						
7	110	F					
10	110		T				
11	110						The total cost of purchase is
							\$5445
26	110						

#	units	units<=0	units>=100	units>=50	units>=20	units>=10	Output
1	?						_
2	?						
3	?						
4	?						
5	?						Enter number of units sold:
6	55						
7	55	F					
10	55		F				
13	55			Т			
14	55						The total cost of purchase is \$3267
26	55						

#	units	units<=0	units>=100	units>=50	units>=20	units>=10	Output
1	?						
2	?						
3	?						
4	?						
5	?						Enter number of units sold:
6	-5						
7	-5	Т					
8	-5						Enter correct number of units sold (>0):
9	100						
10	100		T				
13	100						The total cost of purchase is \$3267
14	100						The total cost of purchase is \$4950
26	100						

- 1. //Task 27
- 2. //Name: Sourav Malani
- 3. //Roll#: i19-0434
- 4. Declare Real length1, width1, length2, width2
- 5. Display "Enter the length of rectangle 1: "
- 6. Input length1
- 7. Display "Enter the width of rectangle 1: "
- 8. Input width1
- 9. Display "Enter the length of rectangle 2: "
- 10. Input length2
- 11. Display "Enter the width of rectangle 2: "
- 12. Input width2
- 13. If (length1*width1) == (length2*width2) Then
- 14. Display "Both rectangles have equal area."
- 15. Else
- 16. If (length1*width1)>(length2*width2) Then
- 17. Display "Rectangle 1 has greater area than that of rectangle 2."
- 18. Else
- 19. Display "Rectangle 2 has greater area than that of rectangle 1."
- 20. End If
- 21. End If

#	length1	width1	length2	width2	(length1*width1)	(length1*width1) >(length2*width	Output
1	0	0	0	0	(length2*width2)	2)	
1	?	?	?	?			
2	?	?	?	?			
3	?	?	?	?			
4	?	?	?	?			
5	?	?	?	?			Enter the length of rectangle 1:
6	12	?	?	?			
7	12	?	?	?			Enter the width of rectangle 1:
8	12	11	?	?			
9	12	11	?	?			Enter the length of rectangle 2:
10	12	11	13	?			
11	12	11	13	?			Enter the width of rectangle 2:
12	12	11	13	15			
13	12	11	13	15	F		
16	12	11	13	15		F	
19	12	11	13	15			Rectangle 2 has greater area than that of rectangle 1.
20	12	11	13	15			
21	12	11	13	15			

#	length1	width1	length2	width2	(length1*width1) == (length2*width2)	(length1*width1) >(length2*width 2)	Output
1	?	?	?	?	(length2 width2)	2)	
2	?	?	?	?			
3	?	?	?	?			
4	?	?	?	?			
5	?	?	?	?			Enter the length of rectangle 1:
6	12	?	?	?			
7	12	?	?	?			Enter the width of rectangle 1:
8	12	11	?	?			
9	12	11	?	?			Enter the length of rectangle 2:
10	12	11	11	?			
11	12	11	11	?			Enter the width of rectangle 2:
12	12	11	11	12			
13	12	11	11	12	Т		
14	12	11	11	12			Both rectangles have equal area.
21	12	11	11	12			

#	length1	width1	length2	width2	(length1*width1) == (length2*width2)	(length1*width1) >(length2*width 2)	Output
1						,	
2							
3							
4							
5							Enter the length of rectangle 1:
6	45						
7	45						Enter the width of rectangle 1:
8	45	10					
9	45	10					Enter the length of rectangle 2:
10	45	10	11				
11	45	10	11				Enter the width of rectangle 2:
12	45	10	11	10			_
13	45	10	11	10	F		
16	45	10	11	10		T	
17	45	10	11	10			Rectangle 1 has greater area than that of rectangle 2.
21	45	10	11	10			

- 1. //Task 28
- 2. //Name: Sourav Malani
- 3. //Roll#: i19-0434
- 4. Declare Real mass, weight
- 5. Display "Enter object's mass: "
- 6. Input mass
- 7. set weight =9.8 * mass
- 8. Display "Weight of the object is ", weight, " Newtons"
- 9. If weight>1000 Then
- 10. Display "The object is too heavy!"
- 11. Else
- 12. If weight<10 Then
- 13. Display "The object is too light."
- 14. End If
- 15. End If

#	mass	weight	weight>1000	weight<10	Output
1	?	?			
2	?	?			
3	?	?			
4	?	?			
5	?	?			Enter object's mass:
6	10	?			
7	10	98			
8	10	98			Weight of the object is 98 Newtons
9	10	98	F		
11	10	98			
12	10	98		F	
15	10	98			

#	mass	weight	weight>1000	weight<10	Output
1	?	?			
2	?	?			
3	?	?			
4	?	?			
5	?	?			Enter object's mass:
6	150	?			
7	150	1470			
8	150	1470			Weight of the object is 1470 Newtons
9	150	1470	T		
10	150	1470			The object is too heavy!
15	150	1470			

#	mass	weight	weight>1000	weight<10	Output
1	?	?	_	_	-
2	?	?			
3	?	?			
4	?	?			
5	?	?			Enter object's mass:
6	1	?			
7	1	9.8			
8	1	9.8			Weight of the object is 98 Newtons
9	1	9.8	F		
11	1	9.8			
12	1	9.8		T	
13	1	9.8			The object is too light.
15	1	9.8			

- 1. //Task 29
- 2. //Name: Sourav Malani
- 3. //Roll#: i19-0434
- 4. Declare C, F // C for Celsius and F for Fahrenheit
- 5. Display "Celsius | Fahrenheit"
- 6. For C=0 To 20
- 7. set F=1.8*C+32
- 8. Display C, " | ", F
- 9. End For

^{*} All dry runs of this program are requirements because there is no input. I added All three of them because of the requirements of 3 dry runs.

#	С	F	Output
1	?	?	Output
2	?	?	
3	?	?	
4	?	?	
5	?	?	Celsius Fahrenheit
6	0	?	
7 8	0	32.0	0 32.0
6	1	32.0	0 32.0
7	1	33.8	
8	1	33.8	1 33.8
6	2	33.8	
7	2	35.6	
8	2	35.6	2 35.6
6	3	35.6	
7 8	3	37.4 37.4	3 37.4
6	4	37.4	3 37.4
7	4	39.2	
8	4	39.2	4 39.2
6	5	39.2	
7	5	41.0	
8	5	41.0	5 41.0
6	6	41.0	
7 8	6	42.8	6 42.8
6	7	42.8	0 42.0
7	7	44.6	
8	7	44.6	7 44.6
6	8	44.6	
7	8	46.4	
8	8	46.4	8 46.4
7	9	46.4	
8	9	48.2	9 48.2
6	10	48.2	7 40.2
7	10	50.0	
8	10	50.0	10 50.0
6	11	50.0	
7	11	51.8	
8	11	51.8	11 51.8
7	12 12	51.8 53.6	
8	12	53.6	12 53.6
6	13	53.6	12 55.0
7	13	55.4	
8	13	55.4	13 55.4
6	14	55.4	
7	14	57.2	14 1 77 7
8	14	57.2	14 57.2
7	15 15	57.2 59.0	
8	15	59.0	15 59.0
6	16	59.0	15 57.0
7	16	60.8	
8	16	60.8	16 60.8
6	17	60.8	
7	17	62.6	17
8	17	62.6	17 62.6
7	18 18	62.6 64.4	
8	18	64.4	18 64.4
6	19	64.4	-5 0111
7	19	66.2	
8	19	66.2	19 66.2
6	20	66.2	
7	20	68.0	20 1 60 0
8 9	20	68.0	20 68.0
7	20	0.00	

1 ? ? 2 ? ? 3 ? ? 4 ? ? 5 ? ? Celsius Fahrenheit 6 0 ? ? 7 0 32.0 8 0 32.0 0 32.0 32.0 6 1 32.0 7 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 1 33.8 6 2 35.6 2 35.6 6 2 33.8 3 37.4 3 37.4 3 37.4 3 37.4 3 37.4 4 39.2 4 39.2 4 39.2 4 4	#	C	F	Output
3 ? ? 4 ? ? 5 ? ? Celsius Fahrenheit 6 0 ? 7 0 32.0 8 0 32.0 0 7 1 33.8 1 8 1 33.8 1 33.8 6 2 33.8 1 33.8 7 2 35.6 2 35.6 8 2 35.6 2 35.6 7 3 37.4 3 37.4 8 3 37.4 3 37.4 8 3 37.4 3 37.4 8 4 39.2 4 39.2 8 4 39.2 4 39.2 9 4 39.2 4 10 6 6 4 4.2.8 6 42.8 8 6 42.8	1	?	?	
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8 10 50.0 10 50.0 6 11 50.0 50.0 7 11 51.8 11 51.8 8 11 51.8 11 51.8 7 12 53.6 53.6 53.6 6 12 53.6 8 12 53.6 12 53.6 53.6 53.6 6 6 13 53.6 53.6 6 6 13 53.6 6 6 13 53.6 6 6 13 53.6 6 6 6 6 7 <td< th=""><th></th><th>10</th><th></th><th></th></td<>		10		
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8 11 51.8 11 51.8 7 12 53.6 12 53.6 8 12 53.6 12 53.6 6 13 53.6 53.6 7 13 55.4 55.4 8 13 55.4 13 55.4 6 14 55.4 55.4 7 14 57.2 55.4 8 14 57.2 14 57.2 7 15 59.0 15 59.0 8 15 59.0 15 59.0 6 16 59.0 7 16 60.8 8 16 60.8 16 160.8 6 17 62.6 60.8 7 17 62.6 62.6 8 17 62.6 17 62.6 6 18 64.4 18 64.4 8 18 64.4 18 64.4 7 19 66.2 66.2				
6 12 51.8 7 12 53.6 8 12 53.6 6 13 53.6 7 13 55.4 8 13 55.4 14 55.4 7 14 57.2 8 14 57.2 7 15 59.0 8 15 59.0 15 59.0 7 16 60.8 8 16 60.8 6 17 60.8 7 17 62.6 8 17 62.6 8 17 62.6 7 18 64.4 8 18 64.4 8 19 66.2 8 19 66.2 9 66.2 19 66.2				11 710
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8 12 53.6 12 53.6 6 13 53.6 53.6 7 13 55.4 13 55.4 8 13 55.4 13 55.4 6 14 55.4 55.4 7 14 57.2 57.2 8 14 57.2 14 57.2 6 15 57.2 59.0 8 15 59.0 15 59.0 6 16 59.0 59.0 60.8 60.8 8 16 60.8				
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6 16 59.0 7 16 60.8 8 16 60.8 6 17 60.8 7 17 62.6 8 17 62.6 17 62.6 6 18 62.6 64.4 8 18 64.4 18 64.4 6 19 64.4 66.2 8 19 66.2 19 66.2 6 20 66.2 66.2				
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7 17 62.6 8 17 62.6 17 62.6 6 18 62.6 7 18 64.4 8 64.4 8 18 64.4 18 64.4 6 19 64.4 7 19 66.2 8 19 66.2 19 66.2 66.2 66.2 </th <th></th> <th></th> <th></th> <th>10 60.8</th>				10 60.8
8 17 62.6 17 62.6 6 18 62.6 7 18 64.4 8 18 64.4 18 64.4 6 19 64.4 7 19 66.2 8 19 66.2 19 66.2 6 20 66.2				
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7 18 64.4 8 18 64.4 18 64.4 6 19 64.4 7 19 66.2 8 19 66.2 19 66.2 6 20 66.2				17 02.0
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6 19 64.4 7 19 66.2 8 19 66.2 19 66.2 6 20 66.2				18 64.4
7 19 66.2 8 19 66.2 19 66.2 6 20 66.2				-0 0 !!!
8 19 66.2 19 66.2 6 20 66.2				
6 20 66.2	8			19 66.2
7 20 68.0	6			
	7	20	68.0	

#	С	F	Output
1	?	?	
3	?	?	
4	?	?	
5	?	?	Celsius Fahrenheit
6	0	?	
7 8	0	32.0	0 32.0
6	1	32.0	0 32.0
7	1	33.8	
6	2	33.8	1 33.8
7	2	35.6	
8	2	35.6	2 35.6
6	3	35.6	
7 8	3	37.4 37.4	3 37.4
6	4	37.4	7 7777
7	4	39.2	4 1 20 2
6	5	39.2 39.2	4 39.2
7	5	41.0	
8	5	41.0	5 41.0
7	6	41.0	
8	6	42.8	6 42.8
6	7	42.8	
7	7	44.6	7 1 44 6
6	7 8	44.6	7 44.6
7	8	46.4	
8	8	46.4	8 46.4
7	9	46.4	
8	9	48.2	9 48.2
6	10	48.2	•
7	10	50.0	10 500
6	10	50.0	10 50.0
7	11	51.8	
8	11	51.8	11 51.8
7	12	51.8	
8	12	53.6	12 53.6
6	13	53.6	
7 8	13	55.4 55.4	13 55.4
6	14	55.4	13 33.4
7	14	57.2	
8	14	57.2	14 57.2
7	15 15	57.2 59.0	
8	15	59.0	15 59.0
6	16	59.0	
7 8	16 16	60.8	16 60.8
6	17	60.8	10 00.0
7	17	62.6	
8	17	62.6	17 62.6
7	18 18	62.6 64.4	
8	18	64.4	18 64.4
6	19	64.4	
8	19 19	66.2	19 66.2
6	20	66.2	27 00.2
7	20	68.0	20 1 20 5
8	20	68.0	20 68.0
9	20	68.0	

8	20	68.0	20	68.0	
9	20	68.0			

```
1. //Task 30
2. //Name: Sourav Malani
3. //Roll#: i19-0434
4. Declare Integer store1, store2, store3, store4, store5, I, times, J
5. Display "Enter sales for store1:"
6. Input store1
7. Display "Enter sales for store2:"
8. Input store2
9. Display "Enter sales for store3:"
10. Input store3
11. Display "Enter sales for store4:"
12. Input store4
13. Display "Enter sales for store5:"
14. Input store5
15. Display "SALES BAR CHART (Each *=$100)"
16. For I=1 To 5
       DisplayOnSameLine "Store", I, ":"
17.
18.
       If I==1 Then
19.
         set times = store 1/100
20.
       Else
21.
          If I==2 Then
            set times = store2/100
22.
23.
          Else
            If I==3 Then
24.
              set times = store3/100
25.
26.
            Else
27.
               If I==4 Then
                 set times = store4/100
28.
29.
                  If I==5 Then
30.
31.
                    set times = store5/100
32.
                  End If
33.
               End If
34.
            End If
          End If
35.
36.
       End If
37.
       For J = 1 To times
       DisplayOnSameLine " *"
38.
39.
       End For
40.
       Display "" // New Line
```

41. End For

#	store1	store2	store3	store4	store5	I	times	J	I==1	I==2	I==3	I==4	I==5	J = 1	Output
1	?	?	?	?	?	?									
3	?	?	?	?	?	?									
4	?	?	?	?	?	?									
5	?	?	?	?	?	?									Enter sales for store1:
6	100	?	?	?	?	?									
7	100	?	?	?	?	?									Enter sales for store2:
8	100	200	?	?	?	?									
9	100	200	?	?	?	?									Enter sales for store3:
10 11	100	200	100	?	?	?									Enter sales for store4:
12	100	200	100	200	?	?									Effet sales for store4.
13	100	200	100	200	?	?									Enter sales for store5:
14	100	200	100	200	100	?									Effect sures for stores.
15	100	200	100	200	100	?									SALES BAR CHART (Each *=\$100)
16	100	200	100	200	100	1									
17	100	200	100	200	100	1									SALES BAR CHART (Each *=\$100) Store 1:
18	100	200	100	200	100	1			Т						
19 36	100	200	100	200	100	1	1								
36	100	200	100	200	100	1	1	1							
38	100	200	100	200	100	1	1	1							SALES BAR CHART (Each *=\$100) Store 1: *
40	100	200	100	200	100	1	1	1							SALES BAR CHART (Each *=\$100) Store 1: * //New line
16	100	200	100	200	100	2	1	?							SALES BAR CHART (Each *=\$100) Store 1: * Store 2:
18	100	200	100	200	100	2	1	?	F						
21 22	100	200	100	200	100	2	2	?		T					
36	100	200	100	200	100	2	2	?							
37	100	200	100	200	100	2	2	1							
38	100	200	100	200	100	2	2	2							SALES BAR CHART (Each *=\$100) Store 1: * Store 2: *
38	100	200	100	200	100	2	2	2							SALES BAR CHART (Each *=\$100) Store 1: * Store 2: * *
40	100	200	100	200	100	2	2	2							SALES BAR CHART (Each *=\$100) Store 1: * Store 2: * * //New line
16	100	200	100	200	100	3	2	?							
17	100	200	100	200	100	3	2	?							SALES BAR CHART (Each *=\$100) Store 1: * Store 2: * * Store 3:
18	100	200	100	200	100	3	2	?	F						
21	100	200	100	200	100	3	2	?		F					
24	100	200	100	200	100	3	2	?			T				
25	100	200	100	200	100	3	1	?							

37	100	200	100	200	100	3	1	1						
38	100	200	100	200	100	3	1	1						SALES BAR CHART
		1	'	'										(Each *=\$100)
		1	'	'					'	1				Store 1: *
		1	'	'					'					Store 2: * *
40	100	200	100	200	100	3	1	1						Store 3: *
40	100	200	100	200	100	3	1	1						SALES BAR CHART (Each *=\$100)
														(Each *=\$100) Store 1: *
														Store 2: * *
														Store 3: *
														//New line
16	100	200	100	200	100	4	1	?	1					
17	100	200	100	200	100	4	1	?						SALES BAR CHART
														(Each *=\$100)
														Store 1: *
														Store 2: * *
														Store 3: *
18	100	200	100	200	100	4	1	?	F					Store 4:
21	100	200	100	200	100	4	1	?	Г	F				
24	100	200	100	200	100	4	1	?		Г	F			
27	100	200	100	200	100	4	1	?			1	Т		
28	100	200	100	200	100	4	2	?				-		
37	100	200	100	200	100	4	2	1						
38	100	200	100	200	100	4	2	1						SALES BAR CHART
		1	'			'	'		'	1		'		(Each *=\$100)
		1	'	'	1	'	'		'	1		'		Store 1: *
		1	'	'		'	'		'	1		'		Store 2: * *
		1	'	'								'		Store 3: *
									<u> </u>					Store 4: *
37	100	200	100	200	100	4	2	2						THE STATE OF A DIE
38	100	200	100	200	100	4	2	2	'	1				SALES BAR CHART
		1	'	'								'		(Each *=\$100) Store 1: *
		1	'			'	'		'	1		'		Store 1: ** Store 2: * *
		1	'	'		'	'		'	1		'		Store 3: *
		1	'	'					'	1				Store 4: * *
40	100	200	100	200	100	4	2	2						SALES BAR CHART
														(Each *=\$100)
														Store 1: *
														Store 2: * *
														Store 3: *
														Store 4: * *
16	100	200	100	200	100	5	2	?						//New line
17	100	200	100	200	100	5	2	?						SALES BAR CHART
-	100	200	100	200	100		2							(Each *=\$100)
														Store 1: *
														Store 2: * *
														Store 3: *
														Store 4: * *
														Store 5:
18	100	200	100	200	100	5	2	?	F			<u> </u>		
21	100	200	100	200	100	5	2	?		F				
24	100	200	100	200	100	5	2	?	<u> </u>		F			
30	100	200	100	200	100	5	2	?				F	Т	
31	100	200	100	200	100	5	1	?					1	
37	100	200	100	200	100	5	1	1						
38	100	200	100	200	100	5	1	1						SALES BAR CHART
30	100	200	100	200	100		1	1						(Each *=\$100)
														Store 1: *
														Store 1.

												Store 2: * * Store 3: * Store 4: * * Store 5: *
40	100	200	100	200	100	5	1	1				SALES BAR CHART (Each *=\$100) Store 1: * Store 2: * * Store 3: * Store 4: * * Store 5: *
41	100	200	100	200	100	5	1	1				

- 1. //Task 31
- 2. //Name: Souray Malani
- 3. //Roll#: i19-0434
- 4. Declare Integer P00, P20, P40, P60, P80, P2K, I //I is for counter
- 5. /*P represents population and number represents year. i.e. P20=population of 1950.
- 6. P2K = Population of 2000(2k) */
- 7. Display "Enter population of 1900:"
- 8. Input P00
- 9. Display "Enter population of 1920:"
- 10. Input P20
- 11. Display "Enter population of 1940:"
- 12. Input P40
- 13. Display "Enter population of 1960:"
- 14. Input P60
- 15. Display "Enter population of 1980:"
- 16. Input P80
- 17. Display "Enter population of 2000:"
- 18. Input P2K
- 19. //Start of the chart.
- 20. Display "PRAIRIEVILLE POPULATION GROWTH (each * represents 1,000 people)"
- 21. DisplayOnSameLine "1900" //P00
- 22. For I = 1 To (P00/1000)
- 23. DisplayOnSameLine "*"
- 24. End For
- 25. Display "" //Newline
- 26. DisplayOnSameLine "1920" //P20
- 27. For I = 1 To (P20/1000)
- 28. DisplayOnSameLine "*"
- 29. End For
- 30. Display ""//Newline
- 31. DisplayOnSameLine "1940" //P40
- 32. For I = 1 To (P40/1000)
- 33. DisplayOnSameLine "*"
- 34. End For
- 35. Display "" //Newline
- 36. DisplayOnSameLine "1960" //P60
- 37. For I = 1 To (P60/1000)
- 38. DisplayOnSameLine "*"
- 39. End For
- 40. Display "" // Newline
- 41. DisplayOnSameLine "1980" //P80
- 42. For I = 1 To (P80/1000)
- 43. DisplayOnSameLine "*"
- 44. End For
- 45. Display "" //Newline
- 46. DisplayOnSameLine "2000" //P2K
- 47. For I = 1 To (P2K/1000)
- 48. DisplayOnSameLine "*"
- 49. End For
- 50. Display "" //Newline

Dry run of this Problem is just like previous problem so I did not make it because its long and contains too many variables and conditions. So, I am showing the output for different inputs.

```
#1
P00 = 1000, P20 = 5000, P40 = 6000, P60 = 7000, P80 = 8000, P2K = 10000
PRAIRIEVILLE POPULATION GROWTH (each * represents 1,000 people)
1900 *
1920 *****
1940 *****
1960 ******
1980 ******
2000 *******
#2
P00 = 10000, P20 = 9000, P40 = 8000, P60 = 7000, P80 = 6000, P2K = 5000
PRAIRIEVILLE POPULATION GROWTH (each * represents 1,000 people)
1900 *******
1920 *******
1940 ******
1960 ******
1980 *****
2000 *****
#3
P00 =6000, P20 =5000, P40 = 4000, P60 = 3000, P80 = 2000, P2K = 1000
PRAIRIEVILLE POPULATION GROWTH (each * represents 1,000 people)
1900 *****
1920 *****
1940 ****
1960 ***
1980 **
2000 *
```