Roll no 21L-7512 BCS-1G

Programming Fundamentals LAB

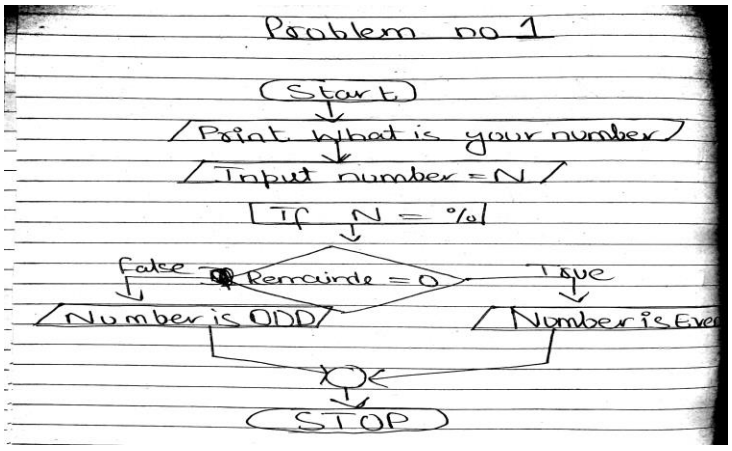
Assignment no 2

Problem no 1

Read the number from the user test whether it is an even or odd number and then display accordingly

1. **Start**
2. **Display What is your number?**
3. **Input number = N**
4. **Check if N = %**
5. **If remainder is 0 then Display "The number is EVEN"**
6. **Else Display "The number is ODD"**
7. **End**

FLOW CHART



Problem no 2

Read a test score range from 0 to100 determine if the score is passing (50 or more) and then Display accordingly (fail if the score is below 50; pass otherwise

1. **Start**
2. **Display What is your score?**
3. **Input Score = N , score range = 0 – 100**
4. **If N > 50 or N = 50 Then Display "Congratulations!! Passed"**
5. **Else if N < 50 Then Display "Failed"**
6. **End**

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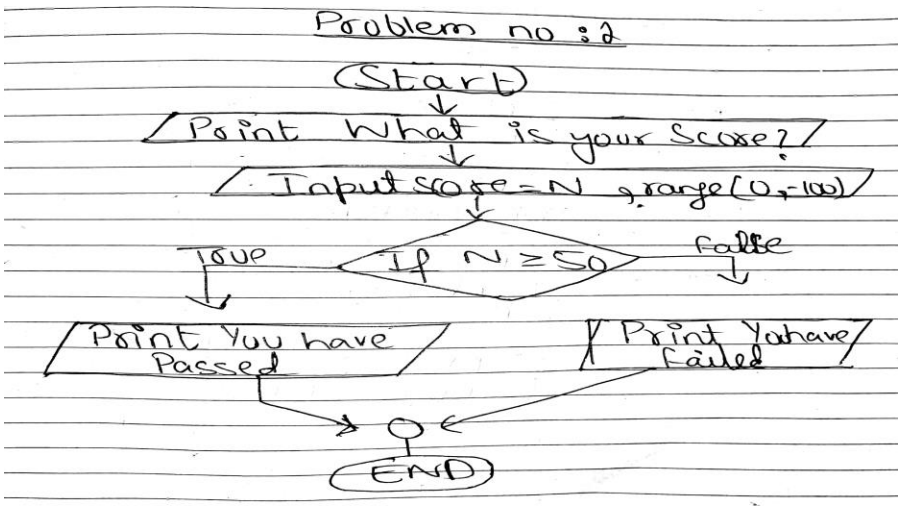

Problem no 3

Find Grade for marks. User is required to input marks obtained and then program gives him a grade according to his marks.

1. **Start**
2. **Display "What are your numbers?"**
3. **Input numbers = N , (N range from 0 to 100)**
4. **If N = 90 to 100 then Display "Grade A+"**
5. **Else If N = 80 to 89 then Display "Grade A"**
6. **Else If N = 70 to 79 then Display "Grade B"**
7. **Else If N = 60 to 69 then Display "Grade C"**
8. **Else If N = 50 to 59 then Display "Grade D"**

9. **Else If N = 0 to 49 then Display “Grade F”**
10. **END**

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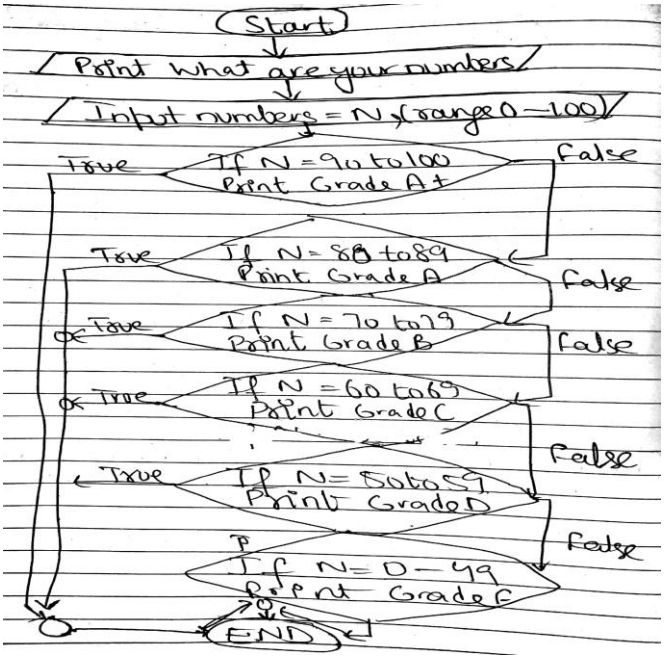

Problem no 4

Read three numbers and Display the largest and the smallest integers

1. **Start**
2. **Display “Add three numbers?”**
3. **Input num1, num2, num3. (if Num1 = Num2 = Num3 then Display “All numbers are Equal”)**
4. **If num1 > num2 and num1 > num3 Then Display “Num1 is largest” Else**
5. **If num2 > num1 and num2 > num3 then Display “Num2 is Largest” Else**
6. **Display “Num3 is Largest”**
7. **If num1 < num2 and num2 < num3 Then Display “Num1 is the smallest” Else**
8. **If num2 < num1 and num2 < num3 then Display “Num2 is the smallest”**
9. **Else Display “Num3 is the smallest”**
10. **End**

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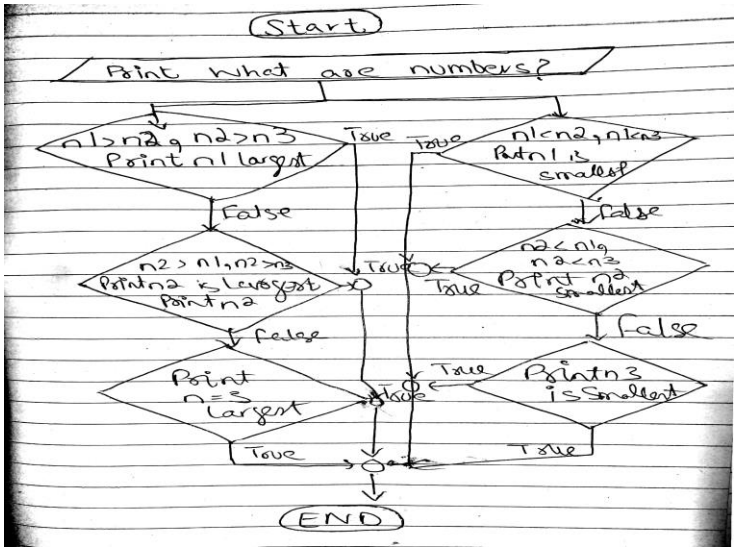

Problem no 5

Read five numbers from the user and calculate the average

1. **Start**
2. **Display “What are your Five numbers?”**
3. **Input numbers = A,B,C,D,E**
4. **Average (A+B+C+D+E)/5**
5. **Display “Average”**
6. **End**

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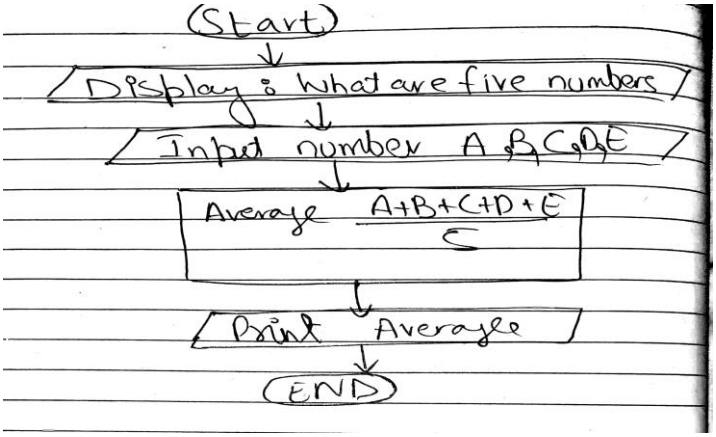

Problem no 6

Write a code to Find maximum element from the list of elements

1. **Start**
2. **Display "Add All the elements of the list"**
3. **Input list of elements**
4. **Maximum number is (N)**
5. **Maximum element (N) >> all the elements of the list**
6. **Display "N is maximum"**
7. **End**

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