

**Qbasic Programming Questions [180]**

<p><b>1. Using FUNCTION...END FUNTION, write a program to calculate the average of three numbers</b></p> <pre> DECLARE FUNCTION AVERAGE (A, B, C) CLS INPUT "ENTER FIRST NUMBER"; A INPUT "ENTER SECOND NUMBER"; B INPUT "ENTER THIRD NUMBER"; C PRINT "AVERAGE OF THREE NUMBERS"; AVERAGE (A, B, C)  FUNCTION AVERAGE (A, B, C) AVERAGE = (A + B + C) / 3 END FUNCTION </pre> <p><b>4. Using FUNCTION, write a program to input any five numbers and display their sum using array (DIM)</b></p> <pre> DECLARE FUNCTION SUM (N ()) CLS DIM N( 5) FOR I = 1 TO 5     INPUT "Enter any 5 numbers"; N (I) NEXT I PRINT "Sum of any 5 numbers is"; SUM(N ( )) END FUNCTION SUM (N ( )) FOR I = 1 TO 5     S = S + N (I) NEXT I SUM = S END FUNCTION </pre>	<p><b>2. Write a program using SUB to find the average of any two numbers given by the user.</b></p> <pre> DECLARE SUB AVERAGE (A, B) CLS INPUT "ENTER FIRST NUMBER"; A INPUT "ENTER SECOND NUMBER"; B CALL AVERAGE (A, B) END  SUB AVERAGE (A, B) AV = (A + B) / 2 PRINT "AVERAGE OF TWO NUMBERS"; AV END SUB </pre> <p><b>5. Write a program in QBASIC to find square of a given number using FUNCTION.....END FUNCTION.</b></p> <pre> DECLARE FUNCTION SQUARE (N) CLS INPUT "ENTER ANY NUMBER"; N PRINT "SQUARE OF NUMBER "; SQUARE (N) END  FUNCTION SQUARE (N) SQUARE = N ^ 2 END FUNCTION </pre>	<p><b>3. Using FUNCTION, write a program to calculate the sum, product, average and difference of two numbers.</b></p> <pre> DECLARE FUNCTION SUM (A, B) DECLARE FUNCTION DIFF (A, B) DECLARE FUNCTION PROD (A, B) DECLARE FUNCTION AVERAGE (A, B) CLS INPUT "ENTER FIRST NUMBER"; A INPUT "ENTER SECOND NUMBER"; B PRINT "SUM OF TWO NUMBERS"; SUM (A, B) PRINT "DIFFERENCE OF TWO NUMBERS"; DIFF (A, B) PRINT "PRODUCT OF TWO NUMBERS"; PROD (A, B) PRINT "AVERAGE OF TWO NUMBERS"; AVERAGE (A, B) END  FUNCTION SUM (A, B) SUM = A + B END FUNCTION  FUNCTION DIFF (A, B) DIFF = A - B END FUNCTION  FUNCTION PROD (A, B) PROD = A * B END FUNCTION  FUNCTION AVERAGE (A, B) AVERAGE = (A + B) / 2 END FUNCTION </pre>
<p><b>6. Write a program in QBASIC to find square root of a given number using SUB.....END SUB.</b></p> <pre> DECLARE SUB SQROOT (N) CLS INPUT "ENTER ANY NUMBER"; N CALL SQROOT (N) END  SUB SQROOT (N) S = N ^ (1 / 2) PRINT "SQUARE ROOT OF NUMBER "; S END SUB </pre>	<p><b>7. Write a program in QBASIC to find cube of a given number using SUB.....END SUB.</b></p> <pre> DECLARE SUB CUBE (N) CLS INPUT "ENTER ANY NUMBER"; N CALL CUBE (N) END  SUB CUBE (N) C = N ^ 3 PRINT "CUBE OF NUMBER "; C END SUB </pre>	<p><b>8. Write a program in QBASIC to find cube root of a given number using FUNCTION.....END FUNCTION.</b></p> <pre> DECLARE FUNCTION CBROOT (N) CLS INPUT "ENTER ANY NUMBER"; N PRINT "CUBE ROOT OF NUMBER "; CBROOT (N) END  FUNCTION CBROOT (N) CBROOT = N ^ (1 / 3) END FUNCTION </pre>

<p><b>9. Write a program in QBASIC to find the sum of cube of two input numbers using SUB.....END SUB</b></p> <pre> DECLARE SUB CUBE (A, B) CLS INPUT "ENTER FIRST NUMBER"; A INPUT "ENTER SECOND NUMBER"; B CALL CUBE (A, B) END  SUB CUBE (A, B) C = A ^ 3 + B ^ 3 PRINT "SUM OF CUBE OF TWO NUMBERS "; C END SUB </pre>	<p><b>10. Write a program to calculate and print the simple interest using FUNCTION.....END FUNCTION.</b></p> <pre> DECLARE FUNCTION INTEREST (P, T, R) CLS INPUT "ENTER PRINCIPAL"; P INPUT "ENTER TIME"; T INPUT "ENTER RATE"; R PRINT "SIMPLE INTEREST="; INTEREST (P, T, R) END  FUNCTION INTEREST (P, T, R) I = P * T * R / 100 INTEREST = I END FUNCTION </pre>	<p><b>11. Using FUNCTION, write a program to calculate distance travelled by a body. (Hint: <math>s=ut + (1/2) at^2</math>)</b></p> <pre> DECLARE FUNCTION DISTANCE (U, T, A) CLS INPUT "ENTER INITIAL VELOCITY"; U INPUT "ENTER TIME"; T INPUT "ENTER ACCELERATION"; A PRINT "DISTANCE TRAVELLED = "; DISTANCE (U, T, A) END  FUNCTION DISTANCE (U, T, A) DISTANCE = U * T + 1 / 2 * A * T ^ 2 END FUNCTION </pre>
<p><b>12. Using FUNCTION.....END FUNCTION, write a program to read perpendicular and base of a right angled triangle to find hypoteneous.</b></p> <pre> DECLARE FUNCTION HYP(P, B) CLS INPUT "ENTER PERPENDICULAR"; P INPUT "ENTER BASE"; B PRINT "HYPOTENUSE="; HYP (P, B) END  FUNCTION HYP (P, B) HYP = (P ^ 2 + B ^ 2) ^ (1 / 2) END FUNCTION </pre>	<p><b>13. Using FUNCTION.....END FUNCTION, write a program to input cost price and selling price from the keyboard to calculate profit.</b></p> <pre> DECLARE FUNCTION PROFIT (CP, SP) CLS INPUT "ENTER COST PRICE"; CP INPUT "ENTER SELLING PRICE"; SP PRINT "PROFIT AMOUNT="; PROFIT (CP, SP) END  FUNCTION PROFIT (CP, SP) P = SP - CP PROFIT = P END FUNCTION </pre>	<p><b>14. Write a program using SUB.....END SUB to find the area of rectangle. [A=L*B]</b></p> <pre> DECLARE SUB AREA (L, B) CLS INPUT "ENTER LENGTH"; L INPUT "ENTER BREADTH"; B CALL AREA (L, B) END  SUB AREA (L, B) A = L * B PRINT "AREA OF RECTANGLE="; A END SUB </pre>
<p><b>15. Write a program using FUNCTION.....END FUNCTION to find the perimeter of rectangle. [P=2(L+B)]</b></p> <pre> DECLARE FUNCTION PER (L, B) CLS INPUT "ENTER LENGTH"; L INPUT "ENTER BREADTH"; B PRINT "PERIMETER OF RECTANGLE"; PER (L, B) END  FUNCTION PER (L, B) PER = 2 * (L + B) END FUNCTION </pre>	<p><b>16. Write a program using SUB.....END SUB to find the area and perimeter of square. [P=4L] [A=L<sup>2</sup>]</b></p> <pre> DECLARE SUB AREA (L) DECLARE SUB PERIMETER (L) CLS INPUT "ENTER LENGTH"; L CALL AREA (L) CALL PERIMETER (L) END  SUB AREA (L) A = L ^ 2 PRINT "AREA OF SQUARE"; A END SUB  SUB PERIMETER (L) P = 4 * L PRINT "PERIMETER OF SQUARE"; P END SUB </pre>	<p><b>17. Write a program in QBASIC to find the area of four wall of a room using FUNCTION.....END FUNCTION.</b></p> <pre> DECLARE FUNCTION AREA (L, B, H) CLS INPUT "ENTER LENGTH"; L INPUT "ENTER BREADTH"; B INPUT "ENTER HEIGHT"; H PRINT "AREA OF FOUR WALLS"; AREA(L, B, H) END  FUNCTION AREA (L, B, H) A = 2 * H * (L + B) AREA = A END FUNCTION </pre>

<p><b>18. Write a sub program cost (l,b,h,c) to find the cost of painting the four walls of a room.</b></p> <pre> DECLARE SUB AREA (L, B, H, C) CLS INPUT "Enter Length"; L INPUT "Enter Breadth"; B INPUT "Enter Height"; H INPUT "Enter Cost"; C CALL AREA (L, B, H, C) END  SUB AREA (L, B, H, C) A = 2 * H * (L + B) T = A * C PRINT "Cost of painting area of four walls is"; T END SUB </pre>	<p><b>19. Write a program using FUNCTION...END FUNCTION to find area of the triangle.</b></p> <pre> DECLARE FUNCTION AREA (B, H) CLS INPUT "ENTER BREADTH"; B INPUT "ENTER HEIGHT"; H PRINT "AREA OF TRIANGLE "; AREA (B, H) END  FUNCTION AREA (B, H) A = 1 / 2 * (B * H) AREA = A END FUNCTION </pre>	<p><b>20. Write a program to calculate the area of triangle by using SUB.....END SUB.</b> [Hints:  <math display="block">\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}</math>]</p> <pre> DECLARE SUB AREA (A, B, C) CLS INPUT "ENTER VALUE FOR FIRST SIDE "; A INPUT "ENTER VALUE FOR SECOND SIDE "; B INPUT "ENTER VALUE FOR THIRD SIDE "; C CALL AREA (A, B, C) END  SUB AREA (A, B, C) S = (A + B + C) / 2 AR = (S * (S - A) * (S - B) * (S - C)) ^ (1 / 2) PRINT "AREA OF TRIANGLE"; AR END SUB </pre>
<p><b>21. Write a program using SUB....END SUB to get radius of circle and then print its circumference. [C=2πR]</b></p> <pre> DECLARE SUB CIRCUM (R) CLS INPUT "ENTER RADIUS"; R CALL CIRCUM (R) END  SUB CIRCUM (R) C = 2 * 3.14 * R PRINT "CIRCUMFERENCE OF CIRCLE "; C END SUB </pre>	<p><b>22. Write a program using FUNCTION...END FUNCTION to get radius of the circle and display the area.</b></p> <pre> DECLARE FUNCTION AREA (R) CLS INPUT "ENTER RADIUS"; R PRINT "AREA OF CIRCLE "; AREA (R) END  FUNCTION AREA (L, B) A = 3.14 * R ^ 2 AREA = A END FUNCTION </pre>	<p><b>23. Write a program using FUNCTION...END FUNCTION to get radius of circle and then print its area and circumference.</b></p> <pre> DECLARE FUNCTION AREA (R) DECLARE FUNCTION CIRCUM (R) CLS INPUT "ENTER RADIUS"; R PRINT "AREA OF SQUARE "; AREA (R) PRINT "CIRCLE OF CIRCUMFERENCE"; CIRCUM (R) END  FUNCTION AREA (R) AREA = 3.14 * R ^ 2 END FUNCTION  FUNCTION CIRCUM (R) CIRCUM = 2 * 3.14 * R END FUNCTION </pre>
<p><b>24. Write a program to declare user defined function using FUNCTION.....END FUNCTION to calculate volume of cylinder.</b></p> <pre> DECLARE FUNCTION VOLUME (R, H) CLS INPUT "ENTER RADIUS"; R INPUT "ENTER HEIGHT"; H PRINT "VOLUME OF CYLINDER "; VOLUME (R, H) END  FUNCTION VOLUME (R, H) VOLUME = 3.14 * R ^ 2 * H END FUNCTION </pre>	<p><b>25. Using Function..... End Function, write a program to calculate volume of hemisphere. [volume = 2/3 πR³]</b></p> <pre> DECLARE FUNCTION VOLUME (R) CLS INPUT "ENTER RADIUS"; R PRINT "VOLUME OF HEMISPHERE "; VOLUME (R) END  FUNCTION VOLUME (R) VOLUME = (2 / 3) * 3.14 * R ^ 3 END FUNCTION </pre>	<p><b>26. Using Sub..... End Sub, write a program to calculate area of sphere. [area = 4πr²]</b></p> <pre> DECLARE SUB TSAREA (R) CLS INPUT "ENTER RADIUS"; R CALL TSAREA (R) END  SUB TSAREA (R) A = 4 * 3.14 * R ^ 2 PRINT "TOTAL SURFACE AREA OF SPHERE "; A END SUB </pre>

<p><b>27. Write a function procedure to read the side of a cube. Calculate its volume and surface area. (Hint: vol=side<sup>3</sup> and sa=6 side<sup>2</sup>)</b></p> <pre> DECLARE FUNCTION TSAREA (L) DECLARE FUNCTION VOLUME (L) CLS INPUT "ENTER LENGTH"; L PRINT "TOTAL SURFACE AREA OF CUBE "; TSAREA(L) PRINT "VOLUME OF CUBE "; VOLUME(L) END  FUNCTION TSAREA (L) TSAREA = 6 * L ^ 2 END FUNCTION  FUNCTION VOLUME (L) VOLUME = L ^ 3 END FUNCTION </pre>	<p><b>28. Write a program using Function Module to calculate and print the volume of a box / cuboid. [ V=L*B*H]</b></p> <pre> DECLARE FUNCTION VOLUME (L, B, H) CLS INPUT "ENTER LENGTH"; L INPUT "ENTER BREADTH"; B INPUT "ENTER HEIGHT"; H PRINT "VOLUME OF CUBOID "; VOLUME(L, B, H) END  FUNCTION VOLUME (L, B, H) VOLUME = L * B * H END FUNCTION </pre>	<p><b>29. Write a program to create a procedure using SUB...END SUB to input the value of length, breadth and height of a box. The program should calculate the area and volume of the box.</b></p> <pre> DECLARE FUNCTION TSAREA (L, B, H) DECLARE FUNCTION VOLUME (L, B, H) CLS INPUT "ENTER LENGTH"; L INPUT "ENTER BREADTH"; B INPUT "ENTER HEIGHT"; H PRINT "TOTAL SURFACE AREA OF CUBOID "; TSAREA(L, B, H) PRINT "VOLUME OF CUBOID "; VOLUME(L, B, H) END  FUNCTION TSAREA (L, B, H) TSAREA = 2 * (L * B + B * H + H * L) END FUNCTION  FUNCTION VOLUME (L, B, H) VOLUME = L * B * H END FUNCTION </pre>
<p><b>30. Write a program in QBASIC to find the total surface area of a box using FUNCTION....END FUNCTION.</b></p> <pre> DECLARE FUNCTION TSAREA (L, B, H) CLS INPUT "ENTER LENGTH"; L INPUT "ENTER BREADTH"; B INPUT "ENTER HEIGHT"; H PRINT "TOTAL SURFACE AREA OF CUBOID"; TSAREA (L, B, H) END  FUNCTION TSAREA (L, B, H) TSAREA = 2 * (L * B + B * H + H * L) END FUNCTION </pre>	<p><b>31. Solve a quadratic equation <math>ax^2+bx+c=0</math> on the basis of the coefficient values a, b, and c using sub procedure. <math>[x = \frac{-b \pm \sqrt{b^2-4ac}}{2a}]</math></b></p> <pre> DECLARE SUB EQUATION (A, B, C) CLS INPUT "ENTER VALUE FOR A"; A INPUT "ENTER VALUE FOR B"; B INPUT "ENTER VALUE FOR C"; C CALL EQUATION (A, B, C) END  SUB EQUATION (A, B, C) D = (B * B - 4 * A * C) ^ (1 / 2) X = (-B + D) / 2 * A Y = (-B - D) / 2 * A PRINT "SOLUTION OF QUADRATIC EQUATION ARE"; X; Y END SUB </pre>	<p><b>32. Write a program using Function.....End Function to get temperature in Celsius from the user and then print the temperature in Fahrenheit.(hint: F=9C/5+32)</b></p> <pre> DECLARE FUNCTION CONVERT (C) CLS INPUT "ENTER TEMPERATURE IN CELCIUS"; C PRINT "TEMPERATURE IN FARENHEIT="; CONVERT (C) END  FUNCTION CONVERT (C) F = 9 * C / 5 + 32 CONVERT = F END FUNCTION </pre>
<p><b>33. Write a program to input Fahrenheit and convert it into Celsius using SUB - END SUB.</b></p> <pre> DECLARE SUB CONVERT (F) CLS INPUT "ENTER TEMPERATURE IN FARENHEIT"; F CALL CONVERT (F) END  SUB CONVERT (F) C = (F - 32) * (5 / 9) PRINT "TEMPERATURE IN CELCIUS="; C END SUB </pre>	<p><b>34. Write a program to convert USD(dollar) into NC (NEPALI currency) using FUNCTION.</b></p> <pre> DECLARE FUNCTION CONVERT (D) CLS INPUT "ENTER CURRENCY VALUE IN DOLLAR"; D PRINT "NEPALESE CURRENCY VALUE="; CONVERT (D) END  FUNCTION CONVERT (D) NC = D * 110 CONVERT = NC END FUNCTION </pre>	<p><b>35. Write a program to convert NC (NEPALI currency) into IC (Indian Currency) using DECLARE SUB.</b></p> <pre> DECLARE SUB CONVERT (NC) CLS INPUT "ENTER VALUE IN NEPALESE RUPEES"; NC CALL CONVERT (NC) END  SUB CONVERT (NC) IC = NC / 1.6 PRINT "INDIAN CURRENCY VALUE="; IC END SUB </pre>

<p><b>36. WRITE A PROGRAM to ask a number as paisa and convert them into corresponding rupees only solve it using SUB Procedure.</b></p> <pre> DECLARE SUB CONVERT (P) CLS INPUT "ENTER VALUE IN PAISE"; P CALL CONVERT (P) END  SUB CONVERT (P) R = P / 100 PRINT "Rupees="; R END SUB </pre>	<p><b>37. Write a program to input distance in kilometre and convert into meter using function procedure.</b></p> <pre> DECLARE FUNCTION CONVERT (K) CLS INPUT "ENTER DISTANCE IN KILOMETER"; K PRINT "DISTANCE IN METER="; CONVERT (K) END  FUNCTION CONVERT (K) M = K * 1000 CONVERT = M END FUNCTION </pre>	<p><b>38. Write a program to input days and convert into years, months and days using sub procedure.</b></p> <pre> DECLARE SUB CONVERT(D) CLS INPUT "ENTER DAYS"; D CALL CONVERT(D) END  SUB CONVERT (D) Y = D \ 365 MO = D MOD 365 M = MO \ 30 D = MO MOD 30 PRINT Y; "YEARS "; M; "MONTHS"; D; "DAYS" END SUB </pre>
<p><b>39. Write a program to input seconds and convert into hours minutes and seconds using sub procedure.</b></p> <pre> DECLARE SUB CONVERT(S) CLS INPUT "ENTER TIME IN SECONDS"; S CALL CONVERT(S) END  SUB CONVERT (S) H = S \ 3600 MI = S MOD 3600 M = MI \ 60 S = MI MOD 60 PRINT H; "HOURS"; M; "MINUTES"; S; "SECONDS" END SUB </pre>	<p><b>40. Write a function convert (N) to read a number in inches and convert it into feet and inches.</b> [1 foot = 12 inches]</p> <pre> DECLARE FUNCTION CONVERT(N) CLS INPUT "ENTER VALUE IN INCHES"; N PRINT CONVERT(N); "FEET"; IN; "INCHES" END  FUNCTION CONVERT (N) SHARED IN IN = N MOD 12 CONVERT = N \ 12 END FUNCTION </pre>	<p><b>41. Write a program to input any number and check whether the given no. is divisible by 3 and 7 or not using function procedure.</b></p> <pre> DECLARE FUNCTION CHECK\$ (N) CLS INPUT "Enter any number"; N PRINT "The given number is "; CHECK\$(N) END  FUNCTION CHECK\$ (N) IF N MOD 3 = 0 AND N MOD 7 = 0 THEN CHECK\$ = "divisible by 3 and 7" ELSE CHECK\$ = "not divisible by 3 and 7" END IF END FUNCTION </pre>
<p><b>42. Using SUB...END SUB, write a program to test whether the given number is completely divisible by 13 or not.</b></p> <pre> DECLARE SUB CHECK (N) CLS INPUT "ENTER ANY NUMBER"; N CALL CHECK (N) END  SUB CHECK (N) IF N MOD 13 = 0 THEN PRINT "The given number is divisible by 13" ELSE PRINT "The given number is not divisible by 13" END IF END SUB </pre>	<p><b>43. Write a program to declare a sub procedure module to decide whether an input no is multiple of 5 or not.</b></p> <pre> DECLARE SUB CHECK (N) CLS INPUT "ENTER ANY NUMBER"; N CALL CHECK (N) END  SUB CHECK (N) IF N MOD 5 = 0 THEN PRINT "The given number is multiple of 5" ELSE PRINT "The given number is not multiple of 5" END IF END SUB </pre>	<p><b>44. Write a function program to find whether the given number is perfect number or not.</b></p> <pre> DECLARE FUNCTION PERFECT (N) CLS INPUT "ENTER ANY NUMBER"; N PR = PERFECT (N) IF PR = N THEN PRINT "PERFECT NUMBER" ELSE PRINT "NOT PERFECT NUMBER" END IF END  FUNCTION PERFECT (N) S = 0 FOR I = 1 TO N - 1 IF N MOD I = 0 THEN S = S + I NEXT I PERFECT = S END FUNCTION </pre>



<p><b>45. Write a sub program to find whether the given number is perfect square number or not.</b></p> <pre> DECLARE SUB PERFECT (N) CLS INPUT "ENTER ANY NUMBER"; N CALL PERFECT (N) END SUB PERFECT (N) S = SQR(N) IF S = INT(S) THEN PRINT "PERFECT SQUARE" ELSE PRINT "NOT PERFECT SQUARE" END IF END SUB </pre>	<p><b>46. Write a program to display only perfect square numbers between 1 to 100 using SUB-END SUB.</b></p> <pre> DECLARE SUB PERFECT ( ) CLS CALL PERFECT END SUB PERFECT ( ) FOR N = 1 TO 100 S = SQR(N) IF S = INT(S) THEN PRINT N, NEXT N END SUB </pre>	<p><b>47. Write a program to define a function procedure which returns whether a input number is positive, negative or zero using SGN function.</b></p> <pre> DECLARE FUNCTION CHECK\$ (N) CLS INPUT "Enter any number"; N PRINT "The given number is "; CHECK\$(N) END FUNCTION CHECK\$ (N) S = SGN(N) SELECT CASE S CASE 1 CHECK\$ = "positive number" CASE -1 CHECK\$ = "negative number" CASE 0 CHECK\$ = "zero" END SELECT END FUNCTION </pre>
<p><b>48. Write a program to input any number and display whether it is odd or even using function procedure.</b></p> <pre> DECLARE FUNCTION CHECK\$ (N) CLS INPUT "ENTER ANY NUMBER"; N PRINT "THE GIVEN NUMBER IS "; CHECK\$(N) END  FUNCTION CHECK\$ (N) IF N MOD 2 = 0 THEN CHECK\$ = "EVEN NUMBER" ELSE CHECK\$ = "ODD NUMBER" END IF END FUNCTION </pre>	<p><b>49. Write a program to input a year and display whether that year is a leap year or not. [divisible by 4 but not 100] using sub procedure.</b></p> <pre> DECLARE SUB CHECK (Y) CLS INPUT "ENTER YEAR"; Y CALL CHECK (Y) END SUB CHECK (Y) IF Y MOD 4 = 0 AND Y MOD 100 &lt;&gt; 0 OR Y MOD 400 = 0 THEN PRINT "LEAP YEAR" ELSE PRINT "NOT LEAP YEAR" END IF END SUB </pre>	<p><b>50. Write a program to input any number and check whether the given no. is positive or negative using sub procedure.</b></p> <pre> DECLARE SUB CHECK (N) CLS INPUT "ENTER ANY NUMBER"; N CALL CHECK (N) END SUB CHECK (N) IF N &gt; 0 THEN PRINT "POSITIVE NUMBER" ELSEIF N &lt; 0 THEN PRINT "NEGATIVE NUMBER" END IF END SUB </pre>
<p><b>51. Input the age of a person and find out whether the person is eligible to drive or not using function procedure. [age &gt;=16]</b></p> <pre> DECLARE FUNCTION CHECK\$ (A) CLS INPUT "ENTER YOUR AGE"; A PRINT "YOU ARE "; CHECK\$(A) END FUNCTION CHECK\$ (A) IF A &gt;= 16 THEN CHECK\$ = "ELIGIBLE TO DRIVE" ELSE CHECK\$ = "NOT ELIGIBLE TO DRIVE" END IF END FUNCTION </pre>	<p><b>52. Input the age of a person and find out whether the person can cast vote or not using sub procedure. [age &gt;=18]</b></p> <pre> DECLARE FUNCTION CHECK\$ (A) CLS INPUT "ENTER YOUR AGE"; A PRINT "YOU ARE "; CHECK\$(A) END FUNCTION CHECK\$ (A) IF A &gt;= 18 THEN CHECK\$ = "ELIGIBLE TO VOTE" ELSE CHECK\$ = "NOT ELIGIBLE TO VOTE" END IF END FUNCTION </pre>	<p><b>53. Write a program to enter any two numbers and display the smaller one using function procedure.</b></p> <pre> DECLARE FUNCTION SMALL (A, B) INPUT "ENTER ANY TWO NUMBERS"; A, B PRINT "THE SMALLER NUMBER IS"; SMALL (A, B) END FUNCTION SMALL (A, B) IF A &lt; B THEN SMALL = A ELSE SMALL = B END IF END FUNCTION </pre>

<p><b>54. Write a program to enter any three numbers and display the smallest one using function procedure.</b></p> <pre> DECLARE SUB SMALL (A, B, C) CLS INPUT "ENTER ANY THREE NUMBERS"; A, B, C CALL SMALL (A, B, C) END SUB SMALL (A, B, C) IF A &lt; B AND A &lt; C THEN S = A ELSEIF B &lt; A AND B &lt; C THEN S = B ELSE S = C END IF PRINT "THE SMALLEST NUMBER IS "; S END SUB </pre>	<p><b>55. Write a program to enter any three numbers and display the middle number using sub procedure.</b></p> <pre> DECLARE SUB MIDDLE(A, B, C) CLS INPUT "ENTER ANY THREE NUMBERS"; A, B, C CALL MIDDLE (A, B, C) END SUB MIDDLE (A, B, C) IF A &gt; B AND A &lt; C OR A &lt; B AND A &gt; C THEN PRINT "THE MIDDLE NUMBER IS"; A ELSEIF B &gt; A AND B &lt; C OR B &lt; A AND B &gt; C THEN PRINT "THE MIDDLE NUMBER IS"; B ELSE PRINT "THE MIDDLE NUMBER IS"; C END IF END SUB </pre>	<p><b>56. Write a program to input three different numbers in the main module then find the greatest number using SUB....END SUB.</b></p> <pre> DECLARE FUNCTION GREAT (A, B, C) CLS INPUT "ENTER ANY THREE NUMBERS"; A, B, C PRINT "THE GREATEST NUMBER IS"; GREAT (A, B, C) END FUNCTION GREAT (A, B, C) IF A &gt; B AND A &gt; C THEN G = A ELSEIF B &gt; A AND B &gt; C THEN G = B ELSE G = C END IF GREAT = G END FUNCTION </pre>
<p><b>57. Write a sub program to input 20 different numbers in an array variable and find the largest and smallest number</b></p> <pre> DECLARE SUB GREAT ( ) DECLARE SUB SMALL ( ) DIM SHARED N(20) CLS FOR I = 1 TO 20 INPUT "ENTER THE NUMBERS"; N(I) NEXT I CALL GREAT CALL SMALL END  SUB GREAT G = N(1) FOR I = 2 TO 20 IF N(I) &gt; G THEN G = N(I) NEXT I PRINT "GREATEST NUMBER"; G END SUB  SUB SMALL S = N(1) FOR I = 2 TO 20 IF N(I) &lt; S THEN S = N(I) NEXT I PRINT "SMALLEST NUMBER"; S END SUB </pre>	<p><b>58. Write a sub program to input three sides of a triangle and determine whether a triangle can be formed or not.</b></p> <pre> DECLARE SUB CHECK (A, B, C) CLS INPUT "ENTER THREE SIDES OF A TRIANGLE"; A, B, C CALL CHECK (A, B, C) END  SUB CHECK (A, B, C) IF (A + B) &gt; C AND (B + C) &gt; A AND (A + C) &gt; B THEN PRINT "THE TRIANGLE CAN BE FORMED" ELSE PRINT "THE TRIANGLE CANNOT BE FORMED" END IF END SUB </pre>	<p><b>59. Write a function program to input three sides of a triangle and determine whether a triangle is right angled triangle or not.</b></p> <pre> DECLARE FUNCTION CHECK\$ (H, B, P) CLS INPUT "ENTER HEIGHT, BASE AND PERPENDICULAR"; H, B, P PRINT CHECK\$ (H, B, P) END  FUNCTION CHECK\$ (H, B, P) IF H ^ 2 = (B ^ 2 + P ^ 2) THEN CHECK\$ = "IT IS A RIGHT ANGLED TRIANGLE" ELSE CHECK\$ = "IT IS NOT A RIGHT ANGLED TRIANGLE" END IF END FUNCTION </pre>

<p><b>60. Write a sub program to input three sides of a triangle and determine whether a triangle is equilateral, isosceles or scalene triangle or not.</b>          DECLARE SUB CHECK (A, B, C)          INPUT "ENTER THREE SIDES OF A TRIANGLE"; A,B,C          CALL CHECK (A, B, C)          END          SUB CHECK (A, B, C)          IF A = B AND B = C THEN          PRINT "IT IS A EQUILATERAL TRIANGLE"          ELSEIF A = B OR B = C OR C = A THEN          PRINT "IT IS ISOSCELES TRIANGLE"          ELSEIF A &lt;&gt; B AND B &lt;&gt; C THEN          PRINT "IT IS A SCALENE TRIANGLE"          END IF          END SUB</p>	<p><b>61. WAP to print the sum of the digits of a given numbers using SUB Procedure.</b>          DECLARE SUB SUM (N)          CLS          INPUT "ENTER ANY NUMBER"; N          CALL SUM (N)          END          SUB SUM (N)          S = 0          WHILE N &lt;&gt; 0          R = N MOD 10          S = S + R          N = N \ 10          WEND          PRINT "SUM OF DIGITS"; S          END SUB</p>	<p><b>62. Write a program to enter a number and find the product of its digits using FUNCTION procedure.</b>          DECLARE FUNCTION PROD (N)          CLS          INPUT "ENTER ANY NUMBER"; N          PR = PROD (N)          PRINT "PRODUCT OF DIGITS"; PR          END          FUNCTION PROD (N)          P = 1          WHILE N &lt;&gt; 0          R = N MOD 10          P = P * R          N = N \ 10          WEND          PROD = P          END FUNCTION</p>
<p><b>63. Write a sub program to input number and find sum of even digits.</b>          DECLARE SUB SUMEVEN (N)          CLS          INPUT "ENTER ANY NUMBER"; N          CALL SUMEVEN (N)          END          SUB SUMEVEN (N)          S = 0          WHILE N &lt;&gt; 0          R = N MOD 10          IF R MOD 2 = 0 THEN S = S + R          N = N \ 10          WEND          PRINT "SUM OF EVEN DIGITS"; S          END SUB</p>	<p><b>64. Write a sub program to input number and count total no. of digits.</b>          DECLARE SUB COUNT (N)          CLS          INPUT "ENTER ANY NUMBER"; N          CALL COUNT (N)          END          SUB COUNT (N)          C = 0          WHILE N &lt;&gt; 0          C = C + 1          N = N \ 10          WEND          PRINT "TOTAL NUMBER OF DIGITS"; C          END SUB</p>	<p><b>65. Write a function program to input number and display only odd digits.</b>          DECLARE FUNCTION ODD (N)          REM          CLS          INPUT "ENTER ANY NUMBER"; N          PRINT " ODD DIGITS ARE ";          D = ODD(N)          END          FUNCTION ODD (N)          WHILE N &lt;&gt; 0          R = N MOD 10          IF R MOD 2 = 1 THEN PRINT R;          N = N \ 10          WEND          END FUNCTION</p>
<p><b>66. Write a program using FUNCTION procedure to reverse and display the integer number having more than one digit passed as arguments from the main module. [Hint: 123 is reversed as 321].</b>          DECLARE FUNCTION REV (N)          CLS          INPUT "ENTER ANY NUMBER"; N          PRINT " REVERSED DIGITS="; REV (N)          END          FUNCTION REV (N)          S = 0          WHILE N &lt;&gt; 0          R = N MOD 10          S = S * 10 + R          N = N \ 10          WEND          REV = S          END FUNCTION</p>	<p><b>67. Write a sub program to input any number and check whether the given no. is palindrome or not.</b>          DECLARE SUB PALIN (N)          CLS          INPUT "ENTER ANY NUMBER"; N          CALL PALIN (N)          END          SUB PALIN (N)          A = N          S = 0          WHILE N &lt;&gt; 0          R = N MOD 10          S = S * 10 + R          N = N \ 10          WEND          IF A = S THEN          PRINT A; "IS PALINDROME"          ELSE          PRINT A; "IS NOT PALINDROME"          END IF          END SUB</p>	<p><b>68. Write a sub program to display first 20 palindrome numbers.</b>          DECLARE SUB PALIN ( )          CLS          CALL PALIN          END          SUB PALIN          N = 1          CNT = 1          TOP:          A = N : S = 0          WHILE A &lt;&gt; 0          R = A MOD 10          S = S * 10 + R          A = A \ 10          WEND          IF N = S THEN          PRINT N,          CNT = CNT + 1          END IF          N = N + 1          IF CNT &lt;= 20 THEN GOTO TOP          END SUB</p>



<p><b>69. Write a sub program to display all palindrome numbers from 1 to 200.</b></p> <pre> DECLARE SUB PALIN ( ) CLS CALL PALIN END SUB PALIN N = 1 FOR I = 1 TO 200 A = N S = 0 WHILE A &lt;&gt; 0 R = A MOD 10 S = S * 10 + R A = A \ 10 WEND IF N = S THEN PRINT N, N = N + 1 NEXT I END SUB </pre>	<p><b>70. Write a function program to input any number and check whether the given no. is Armstrong or not.</b></p> <pre> DECLARE FUNCTION ARM (N) INPUT "ENTER ANY NUMBER"; N A = N AR = ARM (N) IF A = AR THEN PRINT A; "IS ARMSTRONG NUMBER" ELSE PRINT A; "IS NOT ARMSTRONG NUMBER" END IF END FUNCTION ARM (N) S = 0 WHILE N &lt;&gt; 0 R = N MOD 10 S = S + R ^ 3 N = N \ 10 WEND ARM = S END FUNCTION </pre>	<p><b>71. Write a sub program to display first 5 Armstrong numbers.</b></p> <pre> DECLARE SUB ARM ( ) CLS CALL ARM END SUB ARM N = 1 : CNT = 1 TOP: A = N S = 0 WHILE A &lt;&gt; 0 R = A MOD 10 S = S + R ^ 3 A = A \ 10 WEND IF N = S THEN PRINT N, CNT = CNT + 1 END IF N = N + 1 IF CNT &lt;= 5 THEN GOTO TOP END SUB </pre>
<p><b>72. Write a sub program to display all Armstrong numbers from 1 to 500.</b></p> <pre> DECLARE SUB ARM ( ) CLS CALL ARM END SUB ARM N = 1 FOR I = 1 TO 500 A = N S = 0 WHILE A &lt;&gt; 0 R = A MOD 10 S = S + R ^ 3 A = A \ 10 WEND IF N = S THEN PRINT N, N = N + 1 NEXT I END SUB </pre>	<p><b>73. Write a function program to input number and check whether the given no. is prime or composite.</b></p> <pre> DECLARE FUNCTION PRIME(N) CLS INPUT "ENTER ANY NUMBER"; N P = PRIME (N) IF P = 2 THEN PRINT N; "IS PRIME NUMBER" ELSE PRINT N; "IS COMPOSITE NUMBER" END IF END FUNCTION PRIME (N) C = 0 FOR I = 1 TO N IF N MOD I = 0 THEN C = C + 1 NEXT I PRIME = C END FUNCTION </pre>	<p><b>74. Write a sub program to display all prime numbers from 1 to 100.</b></p> <pre> DECLARE SUB PRIME ( ) CLS CALL PRIME END  SUB PRIME FOR N = 1 TO 100 C = 0 FOR I = 1 TO N IF N MOD I = 0 THEN C = C + 1 NEXT I IF C = 2 THEN PRINT N, NEXT N END SUB </pre>
<p><b>75. Write a sub program to display first 20 prime numbers.</b></p> <pre> DECLARE SUB PRIME ( ) CALL PRIME END SUB PRIME N = 1 CNT = 1 TOP: C = 0 FOR I = 1 TO N IF N MOD I = 0 THEN C = C + 1 NEXT I IF C = 2 THEN PRINT N, CNT = CNT + 1 END IF N = N + 1 IF CNT &lt;= 20 THEN GOTO TOP END SUB </pre>	<p><b>76. Write a sub program to input number and check whether the given no. Composite or not.</b></p> <pre> DECLARE SUB COMPOSITE (N) INPUT "ENTER ANY NUMBER"; N CALL COMPOSITE (N) END SUB COMPOSITE (N) C = 0 FOR I = 1 TO N IF N MOD I = 0 THEN C = C + 1 NEXT I IF C &lt;&gt; 2 THEN PRINT N; "IS COMPOSITE NUMBER" ELSE PRINT N; "IS NOT COMPOSITE NUMBER" END IF END SUB </pre>	<p><b>77. Write a sub program to input any number and display the factors.</b></p> <pre> DECLARE SUB FACT (N) CLS INPUT "ENTER ANY NUMBER"; N CALL FACT (N) END  SUB FACT (N) PRINT "FACTORS OF"; N; "="; FOR I = 1 TO N IF N MOD I = 0 THEN PRINT I; NEXT I END SUB </pre>

<p><b>78. Write a program source code using FUNCTION.....END FUNCTION to calculate the factorial of an input number.</b>          DECLARE FUNCTION FACT (N)          CLS          INPUT "ENTER ANY NUMBER"; N          PRINT "FACTORIAL ="; FACT (N)          END</p> <p>FUNCTION FACT (N)          F = 1          FOR I = 1 TO N          F = F * I          NEXT I          FACT = F          END FUNCTION</p>	<p><b>79. Write a program using a SUB procedure module to print the multiplication table of any input number up to tenth terms. [SEE 2075 S2]</b>          DECLARE SUB MUL (N)          CLS          INPUT "ENTER ANY NUMBER"; N          CALL MUL (N)          END</p> <p>SUB MUL (N)          FOR I = 1 TO 10          PRINT N; "X"; I; "="; N * I          NEXT I          END SUB</p>	<p><b>80. Write a program in QBASIC to input any two different number and print HCF and LCM using SUB.....END SUB</b>          DECLARE SUB HCF(A, B)          CLS          INPUT "ENTER ANY TWO NUMBERS"; A, B          CALL HCF (A, B)          END</p> <p>SUB HCF (A, B)          WHILE A MOD B &lt;&gt; 0          T = A MOD B          A = B          B = T          WEND          PRINT "H.C.F="; B          END SUB</p>
<p><b>81. Write a program in QBASIC to display the following series using SUB.... END SUB.</b>          5, 55, 555 ..... up to 6<sup>th</sup> terms          DECLARE SUB SERIES ()          CLS          CALL SERIES          END          SUB SERIES          A = 5          FOR I = 1 TO 5          PRINT A,          A = A * 10 + 5          NEXT I          END SUB</p>	<p><b>82. Write a program using sub procedure to print series: 1, 11, 111, 1111, 11111</b>          DECLARE SUB SERIES ()          CLS          CALL SERIES          END          SUB SERIES          A = 1          FOR I = 1 TO 5          PRINT A,          A = A * 10 + 1          NEXT I          END SUB</p>	<p><b>83. Write a program to display 33333, 3333, 333, 33, 3 by using SUB.....END SUB</b>          DECLARE SUB SERIES ()          CLS          CALL SERIES          END          SUB SERIES          A = 33333          FOR I = 1 TO 5          PRINT A          A = A \ 10          NEXT I          END SUB</p>
<p><b>84. Write a sub procedure to display 1, 12, 123, 1234, 12345</b>          DECLARE SUB SERIES ()          CLS          CALL SERIES          END          SUB SERIES          FOR I = 1 TO 5          FOR J = 1 TO I          PRINT J;          NEXT J          PRINT          NEXT I          END SUB</p>	<p><b>85. Write a sub procedure to display 1, 22, 333, 4444, 55555</b>          DECLARE SUB SERIES ()          CLS          CALL SERIES          END          SUB SERIES          FOR I = 1 TO 5          FOR J = 1 TO I          PRINT J;          NEXT J          PRINT          NEXT I          END SUB</p>	<p><b>86. Write a sub procedure to display 12345, 1234, 123, 12, 1</b>          DECLARE SUB DISP()          CLS          CALL DISP          END          SUB DISP ()          FOR I = 5 TO 1 STEP -1          FOR J = 1 TO I          PRINT J;          NEXT J          PRINT          NEXT I          END SUB</p>
<p><b>87. Write a sub procedure to display 55555, 4444, 333, 22, 1</b>          DECLARE SUB SERIES ()          CLS          CALL SERIES          END          SUB SERIES          FOR I = 5 TO 1 STEP -1          FOR J = 1 TO I          PRINT J;          NEXT J          PRINT          NEXT I          END SUB</p>	<p><b>88. Write a sub procedure to display 54321, 5432, 543, 54, 5</b>          DECLARE SUB SERIES ()          CLS          CALL SERIES          END          SUB SERIES          FOR I = 5 TO 1 STEP -1          FOR J = I TO 1 STEP -1          PRINT J;          NEXT J          PRINT          NEXT I          END SUB</p>	<p><b>89. Write a sub procedure to display 5, 54, 543, 5432, 54321</b>          DECLARE SUB SERIES ()          CLS          CALL SERIES          END          SUB SERIES          FOR I = 5 TO 1 STEP -1          FOR J = 5 TO I STEP -1          PRINT J;          NEXT J          PRINT          NEXT I          END SUB</p>

<b>90. Write a Qbasic Program to generate 1800, 1600, 1400, .....10<sup>th</sup> term.</b> DECLARE SUB DISP() CLS CALL DISP END SUB DISP() A = 1800 FOR I = 1 TO 10 PRINT A A = A - 200 NEXT I END SUB	<b>91. Write a sub procedure to display: 1, 121, 12321, 1234321, 123454321</b> DECLARE SUB SERIES() CLS CALL SERIES END SUB SERIES A# = 1 FOR I = 1 TO 5 PRINT A# ^ 2 A# = A# * 10 + 1 NEXT I END SUB	<b>92. Write a sub procedure to display 123454321, 1234321, 12321, 121, 1</b> DECLARE SUB SERIES() CLS CALL SERIES END SUB SERIES A# = 11111 FOR I = 1 TO 5 PRINT A# ^ 2 A# = A# \ 10 NEXT I END SUB
<b>93. Write a sub program to generate 9, 28, 14, 7, 22, 11, .....10<sup>th</sup> term</b> DECLARE SUB SERIES() CLS CALL SERIES END SUB SERIES A = 9 FOR I = 1 TO 10 PRINT A; IF A MOD 2 = 0 THEN A = A \ 2 ELSE A = A * 3 + 1 END IF NEXT I END SUB	<b>94. Write a sub procedure to generate 7, 22, 11, 34, .....10<sup>th</sup> terms.</b> DECLARE SUB SERIES() CLS CALL SERIES END SUB SERIES A = 7 FOR I = 1 TO 10 PRINT A; IF A MOD 2 = 0 THEN A = A \ 2 ELSE A = A * 3 + 1 END IF NEXT I END SUB	<b>95. Write a sub procedure to generate 22, 11, 34, 17, 52, 26, 13, 40, 20, 10</b> DECLARE SUB SERIES() CLS CALL SERIES END SUB SERIES A = 22 FOR I = 1 TO 10 PRINT A; IF A MOD 2 = 0 THEN A = A \ 2 ELSE A = A * 3 + 1 END IF NEXT I END SUB
<b>96. Write a program to print the following series by using SUB .....END SUB: 1, 4, 9, 16, .....upto 10<sup>th</sup> term.</b> DECLARE SUB SERIES() CLS CALL SERIES END SUB SERIES FOR I = 1 TO 9 PRINT I ^ 2 NEXT I END SUB	<b>97. Write a program to print 1, 8, 27, 64, .....upto 10<sup>th</sup> term.</b> DECLARE SUB SERIES() CLS CALL SERIES END SUB SERIES FOR I = 1 TO 9 PRINT I ^ 3 NEXT I END SUB	<b>98. Write a display the following series: 999, 728, 511, .....upto 10<sup>th</sup> term.</b> DECLARE SUB SERIES() CLS CALL SERIES END SUB SERIES a = 999 b = 271 c = 54 FOR i = 1 TO 10 PRINT a a = a - b b = b - c c = c - 6 NEXT i END SUB
<b>99. Write a program to display 315, 270, 215, 150, ..... upto 10<sup>th</sup> term.</b> DECLARE SUB SERIES() CLS CALL SERIES END SUB SERIES a = 315 b = 45 FOR i = 1 TO 10 PRINT a a = a - b b = b + 10 NEXT i END SUB	<b>100. Write a program to display 5, 10, 20, 35, 55, .....upto 10<sup>th</sup> term.</b> DECLARE SUB DISP() CLS CALL DISP END SUB DISP() A = 5 B = 5 FOR I = 1 TO 10 PRINT A A = A + B B = B + 5 NEXT I END SUB	<b>101. Write a program to print the following series 2, 8, 18, 32, 10<sup>th</sup> terms using SUB ..... END SUB</b> DECLARE SUB DISP() CLS CALL DISP END SUB DISP() A = 2 B = 6 FOR I = 1 TO 10 PRINT A A = A + B B = B + 4 NEXT I END SUB

<b>102. Write a program to display 2, 4, 8, 14, 22 ...upto 10<sup>th</sup> terms</b> DECLARE SUB DISP() CLS CALL DISP END SUB DISP() A = 2 B = 2 FOR I = 1 TO 10 PRINT A A = A + B B = B + 2 NEXT I END SUB	<b>103. Write a program to display 2, 4, 7, 11, 16 up to 10<sup>th</sup> terms.</b> DECLARE SUB DISP() CLS CALL DISP END SUB DISP() A = 2 B = 2 FOR I = 1 TO 10 PRINT A A = A + B B = B + 1 NEXT I END SUB	<b>104. Write a program to display 2, 6, 12, 20, 30 .....up to 10<sup>th</sup> term</b> DECLARE SUB DISP() CLS CALL DISP END SUB DISP() A = 2 B = 4 FOR I = 1 TO 10 PRINT A A = A + B B = B + 2 NEXT I END SUB
<b>105. Write a program to display 0, 1, 3, 6, 10, 15 up to 20<sup>th</sup> terms.</b> DECLARE SUB DISP() CLS CALL DISP END SUB DISP() A = 0 B = 1 FOR I = 1 TO 20 PRINT A A = A + B B = B + 1 NEXT I END SUB	<b>106. Write a program to display 1, 2, 4, 7, 11 up to 10<sup>th</sup> term.</b> DECLARE SUB DISP() CLS CALL DISP END SUB DISP() A = 1 B = 1 FOR I = 1 TO 10 PRINT A A = A + B B = B + 1 NEXT I END SUB	<b>107. Write a program display : 2, 8, 18, 32.....upto 10 terms.</b> DECLARE SUB DISP() CLS CALL DISP END SUB DISP() FOR I = 1 TO 10 PRINT I ^ 2 * 2 NEXT I END SUB
<b>108. Write a program to display 1, 2, 3, 5, 8.....13<sup>th</sup> terms.</b> DECLARE SUB SERIES() CLS CALL SERIES END  SUB SERIES() A = 1 B = 2 FOR I = 1 TO 13 PRINT A; C = A + B A = B B = C NEXT I END SUB	<b>109. Write a program to display 5, 10, 15, 25, 40, 65, 105 ..... up to 10<sup>th</sup> term</b> DECLARE SUB SERIES() CLS CALL SERIES END  SUB SERIES() A = 25 B = 40 FOR I = 1 TO 10 PRINT A; C = A + B A = B B = C NEXT I END SUB	<b>110. Write a program to display: 1, 0, 1, 1, 2, 3..... upto 10<sup>th</sup> term.</b> DECLARE SUB SERIES() CLS CALL SERIES END  SUB SERIES() A = 1 B = 0 FOR I = 1 TO 5 PRINT A; PRINT B; A = A + B B = A + B NEXT I END SUB
<b>111. Write a program to generate 3, 3, 6, 9, 15, 24, 39, 63, 102, 165 .</b> DECLARE SUB SERIES() CALL SERIES END SUB SERIES() A = 3 B = 3 FOR I = 1 TO 10 PRINT A; C = A + B A = B B = C NEXT I END SUB	<b>112. Write a program to generate series 2, 2, 4, 6, 10, 16, .....10<sup>th</sup> terms</b> DECLARE SUB SERIES() CALL SERIES END SUB SERIES() A = 2 B = 2 FOR I = 1 TO 10 PRINT A; C = A + B A = B B = C NEXT I END SUB	<b>113. Write a to generate the series: 81, 64, 49, .....1</b> DECLARE SUB SERIES() CLS CALL SERIES END SUB SERIES() FOR I = 9 TO 1 PRINT I ^ 2 NEXT I END SUB

<b>114. Write a sub program to display numbers 2, 4, 6, .....20.</b>  DECLARE SUB SERIES ( ) CLS CALL SERIES END SUB SERIES FOR I = 2 TO 20 PRINT I NEXT I END SUB	<b>115. Write a sub program to display numbers 100, 90, 80, .....10</b>  DECLARE SUB SERIES ( ) CLS CALL SERIES END SUB SERIES FOR I = 100 TO 80 STEP -10 PRINT I NEXT I END SUB	<b>116. Write a program to print the following serial 9, 7, 5, .....1</b>  DECLARE SUB SERIES ( ) CLS CALL SERIES END SUB SERIES FOR I = 9 TO 1 STEP -2 PRINT I NEXT I END SUB
<b>117. Write a sub program to display product of all numbers from 4 to 8.</b>  DECLARE SUB SERIES ( ) CLS CALL SERIES END SUB SERIES P = 1 FOR I = 4 TO 8 P = P * I NEXT I PRINT "PRODUCT OF ALL NUMBERS FROM 4 TO 8"; P END SUB	<b>118. Write a sub program to print first ten odd numbers. [SLC 2071 S]</b>  DECLARE SUB SERIES ( ) CLS CALL SERIES END  SUB SERIES FOR I = 1 TO 10 S = S + I NEXT I PRINT "SUM OF FIRST TEN POSITIVE INTEGERS"; S END SUB	<b>119. Write a program to print the natural numbers from 1 to 5 using SUB.....END SUB.</b>  DECLARE SUB SERIES ( ) CLS CALL SERIES END  SUB SERIES FOR I = 1 TO 5 PRINT I NEXT I END SUB
<b>120. Write a QBASIC program to find the sum of square of first 10 integers.</b> DECLARE SUB SERIES ( ) CLS CALL SERIES END  SUB SERIES FOR I = 1 TO 10 S = S + I ^ 2 NEXT I PRINT "SUM OF SQUARE FIRST 10 INTEGERS="; S END SUB	<b>121. Write a sub program to display all even numbers from 2 to 100 also display its sum.</b>  DECLARE SUB SERIES ( ) CLS CALL SERIES END SUB SERIES FOR I = 2 TO 100 STEP 2 PRINT I S = S + I NEXT I PRINT "SUM OF ALL EVEN NUMBERS FROM 2 TO 100="; S END SUB	<b>122. Write a sub program to enter 10 different numbers then find out sum of even numbers</b>  DECLARE SUB SUM(N()) CLS FOR I = 1 TO 10 INPUT "ENTER 10 NUMBERS"; N(I) NEXT I  CALL SUM(N()) END SUB SUM (N()) FOR I = 1 TO 10 IF N(I) MOD 2 = 0 THEN S = S + N(I) NEXT I PRINT "SUM OF EVEN NUMBERS="; S END SUB
<b>123. Write a sub program using to display first 13 odd numbers.</b> DECLARE SUB SERIES ( ) CLS CALL SERIES END  SUB SERIES A = 1 FOR I = 1 TO 13 PRINT A A = A + 2 NEXT I END SUB	<b>124. Write a sub program using to display first 19 even numbers.</b> DECLARE SUB SERIES ( ) CLS CALL SERIES END  SUB SERIES A = 2 FOR I = 1 TO 19 PRINT A A = A + 2 NEXT I END SUB	<b>125. WAP to print first ten multiples of input number.</b> DECLARE SUB SERIES ( N ) CLS INPUT "ENTER ANY NUMBER"; N CALL SERIES (N) END  SUB SERIES (N) FOR I = 1 TO 10 PRINT N * I NEXT I END SUB



<p><b>126. Write a program using FUNCTION to get a word from the user and print the word in the reverse order.</b></p> <pre> DECLARE FUNCTION REV\$ (S\$) CLS INPUT "ENTER ANY STRING"; S\$ PRINT "REVERSED STRING IS "; REV\$(S\$) END  FUNCTION REV\$ (S\$) FOR I = LEN(S\$) TO 1 STEP -1 B\$ = MID\$(S\$, I, 1) W\$ = W\$ + B\$ NEXT I REV\$ = W\$ END FUNCTION </pre>	<p><b>127. Write a program to test whether the input word is palindrome word or not using FUNCTION.....END FUNCTION.</b></p> <pre> DECLARE FUNCTION REV\$ (S\$) CLS INPUT "ENTER ANY STRING"; S\$ C\$ = REV\$(S\$) IF S\$ = C\$ THEN PRINT "THE GIVEN STRING IS PALINDROME" ELSE PRINT "THE GIVEN STRING IS NOT PALINDROME" END IF END  FUNCTION REV\$ (S\$) FOR I = LEN(S\$) TO 1 STEP -1 B\$ = MID\$(S\$, I, 1) W\$ = W\$ + B\$ NEXT I REV\$ = W\$ END FUNCTION </pre>
<p><b>128. Write a program to print the shortest word among the three different word input by the user using FUNCTION.....END FUNCTION.</b></p> <pre> DECLARE FUNCTION SHRT\$( A\$, B\$, C\$) CLS INPUT "ENTER FIRST STRING"; A\$ INPUT "ENTER SECOND STRING"; B\$ INPUT "ENTER THIRD STRING"; C\$ PRINT "SHORTEST STRING="; SHRT\$( A\$, B\$, C\$) END  FUNCTION SHRT\$( A\$, B\$, C\$) IF LEN(A\$) &lt; LEN(B\$) AND LEN(A\$) &lt; LEN(C\$) THEN S\$ = A\$ IF LEN(B\$) &lt; LEN(A\$) AND LEN(B\$) &lt; LEN(C\$) THEN S\$ = B\$ ELSE S\$ = C\$ END IF SHRT\$ = S\$ END FUNCTION </pre>	<p><b>129. Write a function program to enter any ten strings and display the shortest string.</b></p> <pre> DECLARE FUNCTION SHRT\$( A\$ ) CLS INPUT "ENTER FIRST STRING"; A\$ PRINT "SHORTEST STRING="; SHRT\$(A\$) END  FUNCTION SHRT\$(A\$) FOR I = 2 TO 10 INPUT "ENTER NEXT STRING"; B\$ IF LEN(B\$) &lt; LEN(A\$) THEN A\$ = B\$ NEXT I SHRT\$ = A\$ END FUNCTION </pre>
<p><b>130. Write a program using FUNCTION....END FUNCTION to input a string and count the total number of consonants.</b></p> <pre> DECLARE FUNCTION COUNT (S\$) CLS INPUT "ENTER ANY STRING"; S\$ PRINT "TOTAL NO. OF CONSONANTS= "; COUNT(S\$) END  FUNCTION COUNT (S\$) CC = 0 FOR I = 1 TO LEN(S\$) B\$ = MID\$(S\$, I, 1) C\$ = UCASE\$(B\$) IF C\$ &lt;&gt; "A" AND C\$ &lt;&gt; "E" AND C\$ &lt;&gt; "I" AND C\$ &lt;&gt; "O" AND C\$ &lt;&gt; "U" THEN CC = CC + 1 NEXT I COUNT = CC END FUNCTION </pre>	<p><b>131. Write a program to find the numbers of vowels in an input string using 'SUB.....END SUB'.</b></p> <pre> DECLARE SUB COUNT (S\$) CLS INPUT "ENTER ANY STRING"; S\$ CALL COUNT(S\$) END  SUB COUNT (S\$) VC = 0 FOR I = 1 TO LEN(S\$) B\$ = MID\$(S\$, I, 1) C\$ = UCASE\$(B\$) IF C\$ = "A" OR C\$ = "E" OR C\$ = "I" OR C\$ = "O" OR C\$ = "U" THEN VC = VC + 1 NEXT I PRINT "TOTAL NO. OF VOWELS="; VC END SUB </pre>

<p><b>132. Write a program using FUNCTION... END FUNCTION to count the number of words in a sentence.</b></p> <pre> DECLARE FUNCTION COUNT (\$\$) CLS INPUT "ENTER ANY STRING"; \$\$ PRINT "TOTAL NO. OF WORDS= "; COUNT(\$\$) END  FUNCTION COUNT (\$\$) WC = 1 FOR I = 1 TO LEN(\$\$) B\$ = MID\$(\$\$, I, 1) IF B\$ = " " THEN WC = WC + 1 NEXT I COUNT = WC END FUNCTION </pre>	<p><b>133. Write a program to declare SUB procedure to print only the vowels from a given word.</b></p> <pre> DECLARE SUB DISPV (\$\$) CLS INPUT "ENTER ANY STRING"; \$\$ CALL DISPV(\$\$) END  SUB DISPV(\$\$) FOR I = 1 TO LEN(\$\$) B\$ = MID\$(\$\$, I, 1) C\$ = UCASE\$(B\$) IF C\$ = "A" OR C\$ = "E" OR C\$ = "I" OR C\$ = "O" OR C\$ = "U" THEN C\$=C\$+ B\$ END IF NEXT I PRINT "VOWELS ONLY ARE"; C\$ END SUB </pre>
<p><b>134. Write a program to input a string then print vowel characters in upper case and consonant characters in lower case using function – end function. (Suppose input string is NEPAL then output should be nEpAl)</b></p> <pre> DECLARE SUB ALT(\$\$) CLS INPUT "ENTER ANY WORD"; \$\$ CALL ALT(\$\$) END  SUB ALT\$ (\$\$) FOR I = 1 TO LEN(\$\$) B\$ = MID\$(\$\$, I, 1) IF I MOD 2 = 1 THEN W\$ = W\$ + LCASE\$(B\$) ELSE W\$ = W\$ + UCASE\$(B\$) END IF NEXT I PRINT W\$ END SUB </pre>	<p><b>135. Write a program to enter any word and print alternate case of each character using DECLARE SUB eg. Nepal to NePaL.</b></p> <pre> DECLARE SUB ALT(\$\$) CLS INPUT "ENTER ANY WORD"; \$\$ CALL ALT(\$\$) END  SUB ALT\$ (\$\$) FOR I = 1 TO LEN(\$\$) B\$ = MID\$(\$\$, I, 1) IF I MOD 2 = 1 THEN W\$ = W\$ + LCASE\$(B\$) ELSE W\$ = W\$ + UCASE\$(B\$) END IF NEXT I PRINT W\$ END SUB </pre>
<p><b>136. Write a function program to enter a string and then find out the sum of even ASCII value of each characters.</b></p> <pre> DECLARE FUNCTION SUM(A\$) CLS INPUT "ENTER ANY STRING"; A\$ PRINT " SUM OF EVEN ASCII VALUE="; SUM(A\$) END  FUNCTION SUM (A\$) FOR I = 1 TO LEN(A\$) B\$ = MID\$(A\$, I, 1) C = ASC(B\$) IF C MOD 2 = 0 THEN S = S + C NEXT I SUM=S END FUNCTION </pre>	<p><b>137. Write a sub program to input any string and display only consonant by removing vowels.</b></p> <pre> DECLARE FUNCTION DISP\$ (\$\$) CLS INPUT "ENTER ANY STRING"; \$\$ PRINT DISP(\$\$) END  FUNCTION DISP\$ (\$\$) FOR I = 1 TO LEN(\$\$) B\$ = MID\$(\$\$, I, 1) C\$ = UCASE\$(B\$) IF C\$ &lt;&gt; "A" AND C\$ &lt;&gt; "E" AND C\$ &lt;&gt; "I" AND C\$ &lt;&gt; "O" AND C\$ &lt;&gt; "U" AND C\$ &lt;&gt; " " THEN W\$=W\$+B\$ END IF NEXT I DISP\$ = W\$ END FUNCTION </pre>

<p><b>138. Write a program to enter a long string and display only initial character of each word Using function procedure.</b></p> <pre> DECLARE FUNCTION INIT\$(A\$) CLS INPUT "ENTER ANY STRING"; A\$ PRINT INIT\$(A\$) END FUNCTION INIT\$(A\$) C\$ = LEFT\$(A\$, 1) FOR I = 1 TO LEN(A\$)     B\$ = MID\$(A\$, I, 1)     IF B\$ = " " THEN C\$ = C\$ + MID\$(A\$, I + 1, 1) NEXT I INIT\$ = C\$ END FUNCTION </pre>	<p><b>139. Write a program using SUB.....END SUB to display:</b></p> <pre> N E P A L </pre> <pre> DECLARE SUB PATTERN (S\$) S\$ = "NEPAL" CALL PATTERN(S\$) END SUB PATTERN (S\$) FOR I = 1 TO LEN(S\$) PRINT MID\$(S\$, I, 1) NEXT I END SUB </pre>
<p><b>140. Write a program to display the following pattern: -</b></p> <pre>       H      KHA     OKHAR    POKHARA </pre> <pre> DECLARE SUB PATTERN (S\$) S\$ = "POKHARA" CALL PATTERN(S\$) END SUB PATTERN (S\$) A = 4 FOR I = 1 TO LEN(S\$) STEP 2 PRINT TAB(A); MID\$(S\$, A, I) A = A - 1 NEXT I END SUB </pre>	<p><b>141. Write a program using SUB.....END SUB to display -</b></p> <pre>       NEPAL      NEPA     NEP    NE   N </pre> <pre> DECLARE SUB PATTERN (S\$) S\$ = "NEPAL" CALL PATTERN(S\$) END SUB PATTERN (S\$) FOR I = LEN(S\$) TO 1 STEP - 1 PRINT LEFT\$(S\$, I) NEXT I END SUB </pre>
<p><b>142. Write a program using SUB.....END SUB to display.</b></p> <pre>       N      NE     NEP    NEPA   NEPAL </pre> <pre> DECLARE SUB PATTERN (S\$) CLS S\$ = "NEPAL" CALL PATTERN(S\$) END SUB PATTERN (S\$) FOR I = 1 TO LEN(S\$) PRINT LEFT\$(S\$, I) NEXT I END SUB </pre>	<p><b>143. Write a sub to print the following pattern:</b></p> <pre>       NEPAL      EPAL     PAL    AL   L </pre> <pre> DECLARE SUB PATTERN (S\$) CLS S\$ = "NEPAL" CALL PATTERN(S\$) END SUB PATTERN (S\$) FOR I = LEN(S\$) TO 1 STEP - 1 PRINT RIGHT\$(S\$, I) NEXT I END SUB </pre>
<p><b>144. Write a SUB procedure to generate given below:</b></p> <pre>       E V E R E S T      V E R E S     E R E    R </pre> <pre> DECLARE SUB PATTERN (S\$) S\$ = "EVEREST" CALL PATTERN(S\$) END SUB PATTERN (S\$) A = 1 FOR I = LEN(S\$) TO 1 STEP -2 PRINT TAB(A); MID\$(S\$, A, I) A = A + 1 NEXT I END SUB </pre>	<p><b>145. Print following pattern</b></p> <pre>       *      ***     *****    ***** </pre> <pre> DECLARE SUB PATTERN (S\$) CLS S\$ = "*****" CALL PATTERN(S\$) END SUB PATTERN (S\$) FOR I = 1 TO LEN(S\$) STEP 2 PRINT LEFT\$(S\$, I) NEXT I END SUB </pre>

<p><b>146. Write a program to store Roll no., Name, Class and Address of any five students. [SEE 2074]</b>  OPEN "Student.dat" FOR OUTPUT AS #1  FOR I = 1 TO 5  INPUT "Enter Roll No."; r  INPUT "Enter Name"; n\$  INPUT "Enter Class"; c  INPUT "Enter Address"; a\$  WRITE #1, r, n\$, c, a\$  NEXT I  CLOSE #1  END</p>	<p><b>147. A sequential data file called "student.dat" contains same records under the field's name, english, nepali and computer. Write a program to add some more records in the same sequential data file. [SLC 2068]</b>  OPEN "student.dat" FOR APPEND AS #1  DO  CLS  INPUT "ENTER NAME"; N\$  INPUT "ENTER MARKS IN ENGLISH"; E  INPUT "ENTER MARKS IN NEPALI"; N  INPUT "ENTER MARKS IN COMPUTER"; C  WRITE #1, N\$, E, N, C  INPUT "DO YOU WANT TO CONTINUE"; CH\$  LOOP WHILE UCASE\$(CH\$) = "Y"  CLOSE #1  END</p>
<p><b>148. A sequential data file "RECORD.DAT" and store Name, Address and Salary of employees. WAP to add some more records in the data file "RECODR.DAT". Program should terminate with user choice.</b>  OPEN "RECORD.DAT" FOR APPEND AS #1  DO  CLS  INPUT "ENTER NAME"; N\$  INPUT "ENTER MARKS IN ENGLISH"; E  INPUT "ENTER MARKS IN NEPALI"; N  INPUT "ENTER MARKS IN COMPUTER"; C  WRITE #1, N\$, E, N, C  INPUT "DO YOU WANT TO CONTINUE"; CH\$  LOOP WHILE UCASE\$(CH\$) = "Y"  CLOSE #1  END</p>	<p><b>149. Create a data file to store the records of few employees having Name, Address, Post, Gender and Salary fields. [SEE 2073]</b>  OPEN "std.rec" FOR OUTPUT AS #1  TOP:  CLS  INPUT "Enter Name"; N\$  INPUT "Enter Address"; A\$  INPUT "Enter Post"; P\$  INPUT "Enter gender"; G\$  INPUT "Enter Salary"; S  WRITE #1, N\$, A\$, P\$, G\$, S  INPUT "Do you want to continue"; CH\$  IF UCASE\$(CH\$) = "Y" THEN GOTO TOP  CLOSE #1  END</p>
<p><b>150. Create a sequential data file 'Price.dat' to store item name, quantity and Rate also calculate total amount (total = Quantity X Rate). Program should terminate according to the user's choice.</b>  OPEN "price.dat" FOR OUTPUT AS #1  TOP:  CLS  INPUT "Enter Item Name"; N\$  INPUT "Enter Quantity"; Q  INPUT "Enter Rate"; R  T = Q * R  WRITE #1, N\$, Q, R, T  INPUT "Do you want to continue"; CH\$  IF CH\$ = "Y" OR CH\$ = "y" THEN GOTO TOP  CLOSE #1  END</p>	<p><b>151. Create a sequential data file 'post.dat' to store name and marks of any three subjects also calculate total and percentages only for 15 students.</b>  OPEN "post.dat" FOR OUTPUT AS #1  FOR I = 1 TO 15  INPUT "Enter Name"; n\$  INPUT "Enter marks in any three subjects"; A, B, C  T = A + B + C  P = T / 3  WRITE #1, n\$, A, B, C, T, P  NEXT I  CLOSE #1  END</p>
<p><b>152. Store SIDNO, name, address and Telephone number of five students and display the records on monitor in sequential data file "STDINFO"</b>  OPEN "STDINFO.DAT" FOR OUTPUT AS #1  FOR I = 1 TO 5  INPUT "ENTER NAME"; N\$  INPUT "ENTER ADDRESS"; A\$  INPUT "ENTER TELEPHONE"; T\$  WRITE #1, N\$, A\$, T\$  NEXT I  CLOSE #1  OPEN "STDINFO.DAT" FOR INPUT AS #1  CLS  FOR I = 1 TO 5  INPUT #1, N\$, A\$, T\$  PRINT N\$, A\$, T\$  NEXT I  CLOSE #1  END</p>	<p><b>153. A sequential data file "Address.inf" contains serial no, name, address, telephone and email_id. WAP to record as many records as the user wants. The serial number should be generated automatically like 5001, 5003, 5005.</b>  OPEN "Address.inf" FOR OUTPUT AS #1  DO  CLS  C = 5001  INPUT "ENTER NAME"; N\$  INPUT "ENTER ADDRESS"; A\$  INPUT "ENTER TELEPHONE"; T\$  INPUT "ENTER EMAIL"; E\$  WRITE #1, C, N\$, A\$, T\$, E\$  C = C + 2  INPUT "DO YOU WANT TO CONTINUE (Y / N)"; CH\$  LOOP WHILE UCASE\$(CH\$) = "Y"  CLOSE #1  END</p>

<p><b>154.A Sequential data file called "SEE.DAT" has stored data under the field heading Symbol No., Name, English, Nepali, and Computer. Write a program to display all the information of those students whose marks in Computer is more than 80.</b></p> <pre> OPEN "SEE.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, A, B\$, C, D, E     IF E &gt; 80 THEN PRINT A, B\$, C, D, E WEND CLOSE #1 END </pre>	<p><b>155.A sequential data file "STD.TXT" contains name and marks in three different subjects of some students. Write a program to display only fail student's records assuming pass marks 40.</b></p> <pre> OPEN "STD.TXT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, B\$, C, D, E     IF C &lt; 40 AND D &lt; 40 AND E &lt; 40 THEN PRINT B\$, C, D, E WEND CLOSE #1 END </pre>
<p><b>156. Write a program which reads records from the file "Result.DAT" having the fields name, and marks of three different subjects and display only those records whose percentage is greater than 60 and less than 80. Also count the total number of records presenting in that data files.</b></p> <pre> OPEN "STD.TXT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, B\$, C, D, E     A=A+1     T=C+D+E     P=T/3     IF P &gt; 60 AND P &lt; 80 THEN PRINT B\$, C, D, E WEND PRINT "TOTAL NO. OF RECORDS="; A CLOSE #1 END </pre>	<p><b>157. Write a program to read all the records from the data file "STUDENT.TXT" and display all the records where the fields name are unknown.</b></p> <pre> OPEN "STUDENT.TXT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     LINE INPUT #1, A\$     PRINT A\$ WEND CLOSE #1 END </pre>
<p><b>158.A data file "pabson.txt" contains the records composed of the fields like school, principal, address, contact. Write a program in Qbasic to display records of the schools located in either Kathmandu or Palpa</b></p> <pre> OPEN "PABSON.TXT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, A\$, B\$, C\$, D     IF UCASE\$(C\$) = "KATHMANDU" OR UCASE\$(C\$) = "PALPA" THEN PRINT A\$, B\$, C\$, D WEND CLOSE #1 END </pre>	<p><b>159.A data file "INFO.DAT" has numerous records in it with name, address age, and telephone numbers in it. Write a program to read all the records and print those with address "NEPAL" and age &gt;15</b></p> <pre> OPEN "INFO.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, A\$, B\$, C, D     IF UCASE\$(B\$) = "NEPAL" AND C &gt; 15 THEN PRINT A\$, B\$, C, D WEND CLOSE #1 END </pre>
<p><b>160.A sequential data file called 'ADDRESS.DAT' contains NAME, AGE, CITY and TELEPHONE fields. Write a program to display all the contents of that data file.</b></p> <pre> OPEN "ADDRESS.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, A\$, B, C\$, D     PRINT A\$, B, C\$, D WEND CLOSE #1 END </pre>	<p><b>161.A data file "lib.txt" consists of book's name, author's name and price of books. Write a program to count and display the total number of records present in the file.</b></p> <pre> OPEN "LIB.TXT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, A\$, B\$, C     D = D + 1 WEND PRINT "TOTAL NUMBER OF RECORDS="; D CLOSE #1 END </pre>
<p><b>162. Write a program in QBASIC to open a sequential data file "EMP.DAT", which contains employees records: Name, address and phone number and display all the records as well as total number of records stored in the file.</b></p> <pre> OPEN "LIB.TXT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, A\$, B\$, C     PRINT A\$, B\$, C     D = D + 1 WEND PRINT "TOTAL NUMBER OF RECORDS="; D CLOSE #1 END </pre>	<p><b>163.A sequential data file named "nabil.txt" contains record of clients of a bank including depositor's name, deposited amount, time and rate of interest. Wap to display detail of all depositors including simple interest.</b></p> <pre> OPEN "NABIL.TXT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, N\$, P, T, R     I=P*T*R/100     PRINT A\$, B\$, C, I WEND CLOSE #1 END </pre>



<p><b>164.A sequential data file "SALARY.DAT" contains the information, Employee-Code, Employee-Name, Post, Basic-Salary. Write a program to display those records whose Basic-salary is between 10000 to 15000 and Post is 'OFFICER'.</b></p> <pre> OPEN "SALARY.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)   INPUT #1, E,, N\$, P\$, S   IF UCASE\$(P\$) = "OFFICER" AND S &gt;= 10000 AND S &lt;= 15000   THEN PRINT A\$, B\$, C, D WEND CLOSE #1 END </pre>	<p><b>165.A data file name "EMP.DAT", contains number of records having fields name, post and salary. Write a program to count total number of "Manager" in the data file. (hint: Manager is a post)</b></p> <pre> OPEN "EMP.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)   INPUT #1, N\$, P\$, S   IF UCASE\$(P\$) = "MANAGER" THEN PRINT C = C + 1 WEND PRINT "TOTAL NO.OF MANAGERS ARE"; C CLOSE #1 END </pre>
<p><b>166.A sequential data file "emp.dat" contains name, post and salary fields of information about employees. Write a program to display all the information of employees along with tax amount (also tax is 15% of salary).</b></p> <pre> OPEN "EMP.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)   INPUT #1, N\$, P\$, S   T = 15 / 100 * S   PRINT N\$, P\$, S, T WEND CLOSE #1 END </pre>	<p><b>167.A data file "Salary.Dat" contains the information of employee regarding their name, post and salary. Write a program to display all the information of employee whose salary is greater than 15000 and less than 40000.</b></p> <pre> OPEN "EMP.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)   INPUT #1, N\$, P\$, S   IF S &gt;= 15000 AND S &lt;= 40000 THEN PRINT N\$, P\$, S WEND CLOSE #1 END </pre>
<p><b>168.Write a program that reads the "INFO.DAT" file that has several record such as name, address, gender, post, and salary .The program display those record whose sex is male and salary more than 10,000 and also the program counts the total number of records in that file.</b></p> <pre> OPEN "INFO.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)   INPUT #1, N\$, A\$, G\$, P\$, S   C = C + 1   IF UCASE\$(G\$) = "M" AND S &gt;= 10000 THEN PRINT N\$, A\$, G\$, P\$, S WEND PRINT "TOTAL NUMBER OF RECORDS="; C CLOSE #1 END </pre>	<p><b>169.A sequential data file 'post.dat' has few records related to name, address, salary.WAP to display the records whose address begins with 'S' or 'D'</b></p> <pre> OPEN "POST.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)   INPUT #1, N\$, P\$, S   A\$ = UCASE\$(LEFT\$(N\$,1))   IF A\$ = "S" OR A\$ = "D" THEN PRINT N\$, P\$, S WEND CLOSE #1 END </pre>
<p><b>170.Write a program to open a data file "record.dat" that contains name, address, date of birth, email and telephone number of some employees. Now display all those records whose date of birth is in current month.</b></p> <pre> OPEN "birth.dat" FOR INPUT AS #1 CLS WHILE NOT EOF(1)   INPUT #1, n\$, d\$, a\$   b\$ = LEFT\$(DATE\$, 2)   c = VAL(b\$)   e\$ = LEFT\$(d\$, 2)   f = VAL(e\$)   IF c = f THEN PRINT n\$, d\$, a\$ WEND CLOSE #1 END </pre>	<p><b>171.A sequential data file "Record.dat" has few records related to name, address, post and DOB(mm/dd/yyyy). WAP to display the records of all those who were born between 1971 to 1999.</b></p> <pre> OPEN "RECORD.dat" FOR INPUT AS #1 CLS WHILE NOT EOF(1)   INPUT #1, n\$, a\$, p\$, d\$   d\$ = RIGHT\$(d\$, 4)   c = VAL(b\$)   IF c &gt;= 1971 and c &lt;= 1999 THEN PRINT n\$, d\$, a\$ WEND CLOSE #1 END </pre>

<p><b>172. Write a Qbasic program that reads the "EMP.DAT" file with Name, Address, Post and Salary columns from E: drive that has 500 records of employees and displays only its last 50 records.</b></p> <pre> OPEN "E:\EMP.DAT" FOR INPUT AS #1 CLS FOR i = 1 TO 500     INPUT #1, n\$, a\$, p\$, s     IF i &gt;= 450 AND i &lt;= 500 THEN PRINT n\$, a\$, p\$, s NEXT i CLOSE #1 END </pre>	<p><b>173. A sequential data file has 100 records having field name, class and roll number. Write a program to display from 50<sup>th</sup> to 60<sup>th</sup> records.</b></p> <pre> OPEN "ABC.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, N\$, C, R     D = D + 1     IF D &gt;= 50 AND D &lt;= 60 THEN PRINT N\$, C, R WEND CLOSE #1 END </pre>
<p><b>174. Write a program to display the first 10 records from a file named "resource.dat" having fields name, phone and email.</b></p> <pre> OPEN "RESOURCE.DAT" FOR INPUT AS #1 CLS FOR I = 1 TO 10     INPUT #1, N\$, C, R     PRINT N\$, C, R NEXT I CLOSE #1 END </pre>	<p><b>175. A data file named "EMP.DAT" contains some records with the fields Code, Name, Post and Salary. Write a program to print odd position records of the data file.</b></p> <pre> OPEN "EMP.DAT" FOR INPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, C, N\$, P\$, S     D = D + 1     IF MOD 2 = 1 THEN PRINT C, N\$, P\$, S WEND CLOSE #1 END </pre>
<p><b>176. A sequential data file named "abc.dat" has several records having fields name, roll and class. Write a program to copy all the records of class 10 into a newly created file new.dat.</b></p> <pre> OPEN "ABC.DAT" FOR INPUT AS #1 OPEN "NEW.DAT" FOR OUTPUT AS #1 CLS WHILE NOT EOF (1)     INPUT #1, N\$, R, C     IF C = 10 THEN WRITE #2, N\$, R, C WEND CLOSE #1, #2 END </pre>	<p><b>177. A data file named "record.dat" contains name, age and salary for n number of persons. Write a program to input a name to search data from a data file. If the data is not found, then display the message "Data not found in the list".</b></p> <pre> OPEN "RECORD.DAT" FOR INPUT AS #1 CLS INPUT "Enter name to be searched"; S\$ FLAG=0 WHILE NOT EOF(1)     INPUT #1, N\$, A\$, S     IF UCASE\$(S\$)=UCASE\$(N\$) THEN         PRINT N\$, A\$, S         FLAG=1     END IF WEND IF FLAG=0 THEN PRINT "Data not found" CLOSE #1 END </pre>
<p><b>178. A sequential data file 'Student.dat' contains registration number, student name, address and date of birth of some students. Write a program that asks a user to input a registration number and displays the record of the particular registration if present.</b></p> <pre> OPEN "STUDENT.DAT" FOR INPUT AS #1 CLS INPUT "Enter registration no. to be searched"; S FLAG=0 WHILE NOT EOF(1)     INPUT #1, R, N\$, A\$, D\$     IF S = R THEN         PRINT R, N\$, A\$, D\$         FLAG=1     END IF WEND IF FLAG=0 THEN PRINT "Data not found" CLOSE #1 END </pre>	<p><b>179. WAP that asks a post of the employee and displays his/her records from the sequential data file "XYZ.REC" having fields Name, Post, Dept and Salary.</b></p> <pre> OPEN "XYZ.REC" FOR INPUT AS #1 CLS INPUT "Enter post to be searched"; S\$ FLAG=0 WHILE NOT EOF(1)     INPUT #1, N\$, P\$, D\$, S     IF UCASE\$(S\$)=UCASE\$(P\$) THEN         PRINT N\$, P\$, D\$, S         FLAG=1     END IF WEND IF FLAG=0 THEN PRINT "Data not found" CLOSE #1 END </pre>

**180.Delete some records from “neps.dat” file where computer ask user to enter the record, which is to be deleted. (Fields are name, address, and telephone number)**

```

OPEN "NEPS.DAT" FOR INPUT AS #1
OPEN "TEMP.DAT" FOR OUTPUT AS #1
CLS
INPUT "Enter name which is to be deleted"; D$
WHILE NOT EOF(1)
INPUT #1, N$, A$, T#
IF UCASE$(D$) <> UCASE$(N$) THEN
WRITE #2, N$, A$, T#
ELSE
PRINT "Deleted data="; N$, A$, T#
END IF
WEND
CLOSE #1, #2
KILL "NEPS.DAT"
NAME "TEMP.DAT" AS "NEPS.DAT"
END

```

**182.A sequential data file “marks.dat” contains information such as student’s name, marks obtained in math, science and computer. Write a program that increase the marks of computer by 10 of those student who secured less than 40**

```

OPEN "D:\PATIENT.DAT" FOR INPUT AS #1
OPEN "d:\TEMP.DAT" FOR OUTPUT AS #2
CLS
FLAG = 0
WHILE NOT EOF(1)
INPUT #1, N$, A, B, C
IF C > 40 THEN
WRITE #2, N$, A, B, C
ELSE
C = C + 10
WRITE #2, N$, A, B, C
FLAG = 1
END IF
WEND
IF FLAG = 0 THEN
PRINT "DATA NOT FOUND"
ELSE
PRINT "DATA EDITED"
END IF
CLOSE
KILL "D:\PATIENT.DAT"
NAME "D:\TEMP.DAT" AS "D:\PATIENT.DAT"
END

```

**181.A sequential data file “RECORD.DAT” contains different records under fields: name rollno., name, address and percentage. Write a program to edit a record and display both edited and unedited records on the screen to compare them side by side.**

```

OPEN "D:\RECORD" FOR INPUT AS #1
OPEN "d:\TEMP.DAT" FOR OUTPUT AS #2
CLS
INPUT "ENTER ROLL NUMBER TO EDIT DATA"; E
FLAG = 0
WHILE NOT EOF(1)
INPUT #1, R, N$, A$, P
IF E <> R THEN
WRITE #2, R, N$, A$, P
ELSE
INPUT "ENTER ROLL NUMBER"; ER
INPUT "ENTER NAME"; EN$
INPUT "ENTER ADDRESS"; EA$
INPUT "ENTER PERCENTAGE"; EP
WRITE #2, ER, EN$, EA$, EP
FLAG = 1
END IF
WEND
IF FLAG = 0 THEN
PRINT "DATA NOT FOUND"
ELSE
PRINT "NON EDITED DATA"
PRINT "ROLL NUMBER="; R
PRINT "NAME="; N$
PRINT "ADDRESS="; A$
PRINT "PERCENTAGE="; P
PRINT "-----"
PRINT "EDITED DATA"
PRINT "ROLL NUMBER: "; ER
PRINT "NAME: "; EN$
PRINT "ADDRESS: "; EA$
PRINT "PERCENTAGE: "; EP
END IF
CLOSE
KILL "D:\SALARY.DAT"
NAME "D:\TEMP.DAT" AS "D:\SALARY.DAT"
END

```