

Pseudo code / algorithm of simple sequence programs

Q1. Read and display a user's name .

1. Start.
2. Declare a variable, x.
3. Take a username from the user and store the name in the variable.
4. Display the username.
5. Stop.

Q2. Adding four numbers.

1. Start.
2. Declare four variable No1, No2, No3, No4 and sum.
3. Input the numbers from the user.
4. Add four numbers, $No1 + No2 + No3 + No4$.
5. Save the result in the sum.
6. Display the sum.
7. Stop.

Q3. Finding the average of four numbers.

1. Start.
2. Declare four variables a, b, c, d and avg.
3. Input the numbers from the user.
4. Take the sum of four numbers and divide them by 4, $a + b + c + d / 4$
5. Save the result in avg.
6. Display the average.
7. Stop.

Q4. Calculate the area of a circle.

1. Start.
2. Declare the Area and rad.
3. Input the value of radius from the user.
4. Multiply the value of pi (3.14) to the square of radius. $3.14 * rad^2$.
5. Save the result in Area.
6. Display the Area of circle.
7. Stop.

Q5. Calculate the interest of the bank deposit.

1. Start.
2. Declare interest, deposited amount, years and the rate of interest.
3. Input the deposited amount and the year from the user.
4. Multiply the deposited amount to years and the rate of interest and divide it by 100.
5. Save the result in the interest.
6. Display the interest of bank deposit.
7. Stop.

Q6. Convert distance from kilometers to Miles.

1. Start.
2. Declare miles and kilometers.
3. Input the value of distance in kilometers from the user.
4. Multiply the Kilometers with 0.621371 and save the result in miles.
5. Display the miles.
6. Stop.

Q7. Compute the Area of a Triangle.

1. Start.
2. Declare area, base and height.
3. Input the base and height from the user.
4. Multiply 0.5, base and height. save the result to the Area.
5. Display the area of triangle.
6. Stop.

Q8. Write a program that takes users hourly pay rate and the number of hours worked for a week as input. Calculate their pay for a week, considering a tax deduction of 15%. Display the net pay after deducting taxes.

1. Start.
2. Declare hourly pay, no of hours worked per week and user's pay from the user.
3. Multiply the hourly pay, number of hours and subtract by 0.15.
4. Save the result in the user's pay.
5. Display the user's pay.
6. Stop