

ASSIGNMENT 1

1) Write an algorithm to find average of 5 numbers?

Step 1: Start

Step 2: Declare variables num1, num2, num3, num4, num5, Sum, and Average.

Step 3: Read values num1, num2, num3, num4, num5.

Step 4: Add num1, num2, num3, num4, num5 and assign the result to Sum.

Step 5: $\text{Average} = \text{Sum}/5$

Step 6: Display Average

Step 7: Stop

2) Write an algorithm to find simple interest?

Step 1: Start

Step 2: Declare variables Principal amount, rate of interest, time period, and SI.

Step 3: Read values Principal amount, rate of interest and time period.

Step 4: $\text{SI} = (\text{Principal amount} \times \text{rate of interest} \times \text{time period})/100$

Step 5: Display SI

Step 6: Stop

3) Write an algorithm to find swap of two numbers?

Step 1: Start

Step 2: Declare variables num1, num2, and temp.

Step 3: Input the values num1, num2.

Step 4: $\text{temp} = \text{num1}$

Step 5: $\text{num1} = \text{num2}$

Step 6: $\text{num2} = \text{temp}$

Step 7: Print num1

Step 8: Print num2

Step 9: Stop

4) Write an algorithm to find the area of circle?

Step 1: Start

Step 2: Declare variable R, Area.

Step 3: Input the value of R.

Step 4: Calculate $\text{Area} = 3.14 * R * R$

Step 5: Print Area

Step 6: Stop

5) Write an algorithm to find the net salary of an employee?

Step 1: Start

Step 2: Declare variables BS, HRA, DA, PF, Net Salary.

Step 3: Input the value of BS.

Step 4: Calculate $\text{HRA} = \text{BS} * 0.1$

Step 5: Calculate $\text{DA} = \text{BS} * 0.2$

Step 6: Calculate $\text{PF} = \text{BS} * 0.04$

Step 7: Calculate $\text{Net Salary} = (\text{BS} + \text{HRA} + \text{DA}) - \text{PF}$

Step 8: Print Net Salary

Step 9: Stop