**DATA STRUCTURES AND ALGORITHMS**

**LAB 3: Writing Pseudocode**

**Adding odd numbers and Averaging**

//Counting all odd numbers upto a user defined end point and calculating average

//Inputs – User defined end point

//Outputs – Average, Sum

**Step 1**: Declare the variables i.e. starting\_odd\_number, ending\_point, sum, average, counter

Give the variables values i.e. starting\_odd\_number = 1, sum=0, counter=0

**Step 2**: prompt the user to input the end point

**Step 3:** Store the value in an already declared variable – ending\_point

**Step 4:** While (starting\_odd\_number<=ending\_point)

{

Sum=sum+starting\_odd\_number

Starting\_odd\_number=starting\_odd\_number+2

Counter=counter+1

}

**Step 5:** Compute average as sum / counter

**Step 6:** Give output clearly indicating the sum and the average