**LAB TASKS**

**PSEUDO CODE FOR LAB TASK**

**TASK 1**

1. **START**
2. **//INPUT/OUTPUT**
3. **INPUT A**
4. **//CONDITIONAL STATEMENT**
5. **IF a/5 and remainder=0**
6. **Print” The number is multuiple of 5”**
7. **Else**
8. **PRINT” The number is not multiple of 5 “**
9. **END**

**TASK 2**

1. **Start**
2. **//INPUT/OUTPUT**
3. **INPUT character**
4. **If character>=A and character<=”Z”**
5. **Then PRINT” The character is uppercase”**
6. **ELSE**
7. **Print “The character is lower case”**
8. **End**

**TASK 3**

1. **Start**
2. **//INPUT/OUTPUT**
3. **INPUT a**
4. **Input operator**
5. **Intput b**
6. **If operator=+**
7. **then print sum=(a+b)**
8. **Else operator=\***
9. **then print multiply=(a\*b)**
10. **END**

**TASK 4**

1. **START**
2. **//INPUT/OUTPUT**
3. **Input a**
4. **If a>0**
5. **Print “ The number is positive”**
6. **Else if a<0**
7. **Print” The number is negative”**
8. **Else**
9. **Print “ The number is zero”**
10. **End**

**TASK 5**

1. **START**
2. **//INPUT/OUTPUT**
3. **Input a**
4. **If a>=13 and a<=19**
5. **Print The person is teenager**
6. **Else**
7. **Print the person is not a teenager**
8. **End**
9. **Implement an algorithm to determine if a given year is a leap year. A leap year is divisible by 4, but not divisible by 100, except if it is also divisible by 400.**

1.Enter the year

2.Check year is divisible by 4

3.Then also check the year is divible by 100 for century

4.If divible by 100

5.Then check it is divisible by 400

6.If it is divisible by 400

7.Print year is leap year

**2. Implement an algorithm to count the number of occurrences of each character in a given String.**

1. Enter the word
2. The word is BANANA
3. Check how many times words repeated
4. A is repeated three times, N is repeated two times, B is only one time
5. Print Total number are five

**3. Write an algorithm to calculate x raised to the power y (i.e., xy) without using built-in power functions.**

1. Enter the value of x
2. Enter the value of y
3. Set z=x^y (y in the exponent of base x)
4. Print z.
5. **Calculate the area of a circle given its radius r.**
6. Enter the value of radius.
7. Set Area to (3.14 x r x r)
8. Print area.
9. **Find the median of three given numbers.**
10. Enter the number 1
11. Enter the number 2
12. Enter the number 3
13. Arrange the numbers in ascending orders
14. In ascending order middle number is median=z
15. Print z