

# ML LAB ASSIGNMENT 2

Due Date: 09/10/2025

Instructor: SHOAIB FAROOQ

Maximum Points: 200

Section: BSCS M,E / BSIT

**Note: Plagiarism will result in zero marks for all assignments. Submissions will not be accepted via email, WhatsApp, or any group platform under any circumstances. Only submissions through Google Classroom will be considered.**

**The file name must follow this format: 2020\_AG\_xxx\_Assignment2.ipynb.**

**Q1:** Write a program that reads three integers and outputs the smallest.

**Q2:** Write a program that reads two integers and outputs them in decreasing order.

**Q3:** Write and run a program that simulates a simple calculator. It reads two integers and a character. If the character is a +, the sum is printed; if it is a -, the difference is printed; if it is a \*, the product is printed; and if it is a /, the quotient is printed.

**Q4:** Write a program that reads three integers and prints the average of these.

**Q5:** Write a program that reads the score of a student in a subject and displays his grade

Score	Grade
$\geq 90$	A+
80 – 89	A
70 – 79	B
60 – 69	C
50 – 59	D
< 50	F

**Q6:** Write a while loop that produces the following output:

-81,-49,-25,-9,-1, 1, 9, 25, 49, 81

**Q7: Print following pattern with using any loop or condition.**

```
* * * * *  
* * * *  
* * *  
* *  
*  
*  
* *  
* * *  
* * * * *
```

**Q8: Print odd numbers from 1 to 19 using a while loop:**

**Q9: Reverse a given string using a while loop**

**Q10: Print Fibonacci series up to a certain number using a while loop**

**Q11: Calculate the factorial of a number using a while loop**

**Q13: Print even numbers from 1 to 20 using a while loop**

**Q14: Calculate the product of numbers from 1 to 10 using a while loop**

**Q15:** Write a program that produces the following output. Use nested while loops to capture the structure of the figure.

```
1  
22  
333  
4444  
55555
```

**Q16:** Write a program that produces the following output. Use nested while loops to capture the structure of the figure.

```
1  
2  
3  
4  
5
```