

Question: Write a Python program that asks the user to enter **three exam grades**.

The program should:

1. Calculate the **average score**.
2. Determine the **letter grade** based on the average (using the grading table below).
3. Display whether the student **passed or failed**.
4. If any grade is outside the range **0–100**, display an error message:  
"Invalid grade entered!"

Average Range	Letter Grade
90 – 100	AA
80 – 89	BA
70 – 79	BB
60 – 69	CB
50 – 59	CC
40 – 49	DC
30 – 39	DD
0 – 29	FF

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- Get **three exam grades** from the user (integer or float).
- Check if all grades are between **0 and 100**.
- If not, print "Invalid grade entered!" and stop the program.
- Calculate the **average** of the three grades.
- Determine the **letter grade** using the table above.
- Print the **average** and **letter grade**.
- Print whether the student **passed or failed**:
- If  $\text{average} \geq 50 \rightarrow \text{"Congratulations, you passed!"}$
- If  $\text{average} < 50 \rightarrow \text{"Unfortunately, you failed."}$

Example output:

```
Enter the 1st exam grade: 75
Enter the 2nd exam grade: 82
Enter the 3rd exam grade: 68
```

```
Average: 75.00
Letter Grade: BB
Congratulations, you passed!
```

