Object Oriented Programming

Lab Task 01

Note:

- Copied task will be awarded zero marks.
- Note that these lab task marks could be graded through a viva in lab.
- Submit the .cpp file for each task in google classroom and rename it with your roll no and name.

For example: Ali Ahmed 22p9023 task1.cpp.

- Lab Tasks will be graded in Lab.
 - 1. Write a program that converts seconds into minutes, hours and days and prints the result on screen in HH:MM:SS format. E.g.: seconds = 5000 Output: 1 hour, 23 minutes and 20 seconds.

Note: Input the no of seconds from the user.

2. Write a program that calculates the BMI and prints the result in float (up to 3 decimal places) on screen. Formula: $BMI=kg/m^2$

Note: Input the weight in kg and height in meters from the user.

3. Write a program using nested if else that asks a user whether he/she wants burger. If the user enters Y or y. Then the program should further ask whether the user wants an add-on of fries and cold drink for 200 Rs only. Calculate and display the total price accordingly. Price of Burger is 500. Note: Validate your input. If the user enters anything other than Y, y, n or N. The program should display the message "Invalid Input".

Sample Output:

```
C:\Users\hy\Desktop\C Programs\burger_bill.exe
Do you want a burger? Y/N
Burger added
do you want a fries and drink as addon? Just for 200 Rs Y/N
Your choice!Thank you
our total Bill is: 300
 C:\Users\hy\Desktop\C Programs\burger_bill.exe
Do you want a burger? Y/N
Burger added
do you want a fries and drink as addon? Just for 200 Rs Y/N
Thank you
 our total Bill is: 500
 C:\Users\hy\Desktop\C Programs\burger_bill.exe
Do you want a burger? Y/N
No problem. See you next time
```

4. Write a C program that takes an integer from user and print a half diamond pattern using nested loops. Here the no from the user is the no of row after which the pattern will start to invert.

Sample Output: