C++ Tutorial - 2022-05-17, 18, 19

1. Write a C++ program that prompts the user to enter 10 integers.
   The program will save the integers in a file named "integers.txt".
   At the end of the program, the sum of all the entered integers should be printed on the console.

2. Refer to the "numbers.txt" file for this question.
   Write a C++ program that reads the numbers from the file and prints out the average of these numbers.

3. Create a text file named "birthday.txt" with the following as its content. Each row contains the first name, the last name, the birth date, the birth month and the birth year of an individual.

   ```
   Noorel Yaqin 17 7 1993
   Imran Sapini 9 6 1993
   Daniela Andrade 15 8 1992
   M K 14 3 2007
   ```

   Now, write a C++ program that reads this file and copies the information into a file named "americanBirthday.out" according to the following format.

   ```
   lastName, firstName: birthMonth-birthDate-birthYear
   ```

4. Create a text file named "car.dat" containing the following data (without the table header):

Car Number	Kilometers Driven	Liters of Petrol Used
54	250	19
62	525	38
71	123	6
85	1322	86
97	235	14

   Then, write a program that reads the file and displays the car number, kilometers driven, liters of petrol used, and kilometers per liter (kpl) for each car. At the end of the output, your program should also display the total kilometers driven, the total liters of petrol used, and the average kpl for each car.

5. You are selling a T-shirt for RM5.50 per piece and a blouse for RM6.90 per piece. Write a program that requires the user to enter the number of T-shirts and the number of blouses a customer is buying. Your program should then calculate and show the total price. Also, create an invoice/receipt in a file named "invoice.dat". Make sure the invoice includes all the important information such as the quantity, the price per unit, and the total price for each item, as well as the grand total.