PPS Lab Exercise-1

1. Write a C program that prints out the following menu for a game (include the line of asterisks (#) on top and \$ bottom):

Welcome!

Please choose a number from the following options:

- 1. Play the game!
- 2. Demo the game!
- 3. Exit

2. Write C code to generate the results as shown below: Results:

Enter the score of the final: 89

Quiz Total: 256 Mid-term: 80 Final: 89

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Total: 425

3. Get input of your name(as string), Register number(as string), address (as string), age in years (Int), weight in kg (as float), height in meters (double), twelfth cgpa/percentage (float read two decimal points only and display with one decimal point) from keyboard and display the information as below:

Enter Name of Student: Surya

Roll Number: 522

Enter CGPA/percentage: 59.40

Name of Student: Surya

Roll Number: 522

Percentage Score Secured: 59.4%

4. In program get the values of age in years, weight in grams and height in cm then convert the age into months, weight into kg, height into meters and display the student information as follows,

Enter Name of Student: Surya

Roll Number: 522 Age in years: 18.5 Weight in gram: 55000 Height in cm: 163

Enter CGPA/percentage: 59.40

Name of Student: Surya

Roll Number: 522

Age in months: 222 months Weight in Kilogram: 55 Height in meters: 1.63

Percentage Score Secured: 59.4%

5. Write a C program that takes hours, minutes and seconds (declare as long int) as input, and calculates the total number of seconds.

Expected Output:

Input hours: 5 minutes: 37

seconds: 10

Total: 20230 seconds.

- 6. Given the following pseudo code, write a program that executes it.
 - a. read x
 - b. read y
 - c. compute p=x*y
 - d. compute s=x+y
 - e. total=s2+p*(s-x)*(p+y)
 - f. print total
- 7. Write a program that reads a temperature in degrees Celsius and prints out the corresponding temperature in degrees Fahrenheit (F = (C * 9 / 5) + 32).

- 8. Write a program that reads a temperature in degrees Celsius and prints out the corresponding temperature in degrees Fahrenheit. Declare constant variable cv=32 and use it in the formula (F = (C * 9 / 5) + cv).
- 9. Write a C program that will calculate how much of a profit an investor will make. You will need to get the following three inputs:
 - the number of shares the investor purchased
 - the price of the stock (per share) when the investor purchased it
 - the price of the stock (per share) now

The formula to use: Profit = (# of shares * Current Price) – (# of shares * Purchase Price)
Output this message to the screen:
You have made a profit of \$ dollars since you bought shares of this stock.
Also, you must display the dollar amount formatted to two decimal places. Place this statement at the start of your program: