

# Programming Fundamentals (CS-118)

## Assignment 02

**Deadline: September 27, 2018 (Submit on Slate)**

### Instructions:

1. Assignment submit only on slate not via Email acceptable.
2. ZIP all your codes in a folder with your Student ID.
3. Solve each problem in separate file, Name the code file with problem no (01.c, 02.c,.....)
4. Make sure your Program code possesses the following details on the top in comments.
  - Assignment No = 02
  - Section = I
  - Std.Id = 18k-XXXX
  - Name = ASDF JKL

### Develop the Code and Flowchart for the following:

1. Calculate the percentage you got in course Programming Fundamentals. Marks breakup is as follows Mid1 – 15, Mid2 – 15, Assignment – 10, Quiz – 10, Final – 50. Print grades on the basis of total marks obtained in course.
2. Given as input an integer number of seconds, print as output the equivalent time in hours, minutes and seconds. Recommended output format is something like  
"7322 seconds is equivalent to 0 days, 2 hours 2 minutes 2 seconds"
3. You are in a grocery store, have a budget of PRK.(XXXX) amount of money. You bought the Fruits of 40%, Vegetables of 25%, Bakery Items 15% of and others 20% of your budget. Keep in mind that you entered the amount in numbers but validate it in percentage. Display should be like this

Total Budget (x)

1. Fruits (40% of x)
2. Vegetables (25% of x)
3. Bakery Item (15% of x)
4. Others (20% of x)

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Total Purchase in (%) of Budget(x)

4. Write a program which takes input a number and convert it to different money notes (100, 10, 5, 3, 2, 1). For example, input is 125, the output should be:  
"There are 1, 100 bills, 2, 10 bills, 1, 5 bills, 0, 3 bills, 0, 2 bills, 0, 1 bill".
5. Calculate no of Holidays in a month. Take Month as INT and Day as CHAR from the user. Keeping in mind that month strictly follows the calendar days. User may not enter any other value other than below mentioned.

[hint] Month: 1 stands Jan, 2 stands Feb, 3 stands March, ....., 12 stands Dec

Day: M for Monday, T for Tuesday, W for Wednesday, R for Thursday, F for Friday, S for Saturday, U for Sunday.

Holiday includes Saturday, Sunday and a Bank Holiday.