**Course: Programming Fundamental (CS-323)**

**Semester: 1 Assignment Number 3**

**Fall 2021 Total Marks:**

Name **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Reg # **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Discipline **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Section **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Submission Date **Friday 10th December Before 11:59 PM**

**Note: Assignment must be hand written. Create pdf of all pages of your assignment and send it to your CR/GR. Name of your PDF file must be your BIIT application number followed by your first name.**

**Example: BIIT app number of Amir is BIIT110101.**

**So name of his pdf file will be ‘BIIT110101-Amir.pdf’**

**Question No. 1:**

[**Write a C program to input total number of units consumed by user and calculate total electricity bill according to the given conditio**](https://codeforwin.org/2015/05/c-program-to-calculate-electricity-bill.html)**n.**

* For first **50** units Rs. 6.75/unit
* For next **100** units Rs. 10.50/unit
* For next **100** units Rs. 15.20/unit
* For unit above **250** Rs. 20.50/unit

An additional surcharge of **20%** is added to the bill

If total bill is above 20000, then user will be given 5% discount.

**Question No. 2:**

[**Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following**](https://codeforwin.org/2015/05/c-program-to-enter-student-marks-and-calculate-percentage-and-grade.html)**.**

* Percentage>=**90**%: Grade A
* Percentage>=**80**%: Grade B
* Percentage>=**70**%: Grade C
* Percentage>=**60**%: Grade D
* Percentage>=**40**%: Grade E
* Percentage < **40**%: Grade F

Your program should also take total marks of each subject. If user enters obtained marks more than total marks than you should tell user that input data has been entered.

**Question No. 3:**

[**Write a C program to count total number of notes in given amount**](https://codeforwin.org/2015/07/c-program-to-count-total-number-of-notes.html)**.**

* How many of **1000**
* How many of **500**
* How many of **100**
* How many of **50**
* How many of **20**
* How many of **10**

**For Example: if user enters ‘1750’**

1000: 1

500: 1

100: 2

50: 1

**Question No. 4:**

[**Ahmad wants to give his yearly zakat.**](https://codeforwin.org/2015/07/c-program-to-count-total-number-of-notes.html) **But he does not know how to calculate ‘Zakat’. Write a C++ program that helps Ahmad to calculate his ‘Zakat’. Ahmad will enter**

* **Amount of Gold in ‘Tola’ Ahmad has.**
* **Amount of Silver in ‘Tola’ Ahmad has.**
* **Total cash in his bank account Ahmad has.**

**Eligibility for Zakat is total procession must be equal to or more than amount equivalent to at least 7 ‘tola’ gold or 52 ‘tola’ silver.**

**User will also enter current price of 1 ‘tola’ Gold and 1 ‘tola’ silver.**

**Your program should tell Ahmad if he is eligible for zakat or not. If he is eligible then tell him total amount of ‘Zakat’ due on him.**