***Assignment 1***

***Due Date: 3rd Nov, 2021***

**Instructions:**

* Please submit your assignment on/before the due date on LMS. No assignment will be accepted after the due date.
* Assignment would be marked as zero without any explanation, if it is found to be copied.
* Please paste result screenshot along with code.
* Make a group of two students to work on assignment, but all students individually need to upload the assignment on LMS.
* I will check your assignment in Lab.

**Question 1:** Write a program to calculate the monthly telephone bills as per the following rule:   
Minimum Rs. 200 for upto 100 calls.   
Plus Rs. 0.60 per call for next 50 calls.   
Plus Rs. 0.50 per call for next 50 calls.   
Plus Rs. 0.40 per call for any call beyond 200 calls.

**Question 2:** Any character is entered by the user; write a program to determine whether the character entered is a capital letter, a small case letter, a digit or a special symbol. The following table shows the range of ASCII values for various characters.

|  |  |
| --- | --- |
| Characters | ASCII Values |
| A – Z | 65 – 90 |
| a – z | 97 – 122 |
| 0 – 9 | 48 – 57 |
| special symbols | 0 - 47, 58 - 64, 91 - 96, 123 – 127 |

**Question 3:** A company pays its employees as managers (who receive a fixed weekly salary), hourly workers (who receive a fixed hourly wage for up to the first 40 hours they work and "time-and-a-half"1.5 times their hourly wage for overtime hours worked), commission workers (who receive $250 plus 5.7 percent of their gross weekly sales), or pieceworkers (who receive a fixed amount of money per item for each of the items they produce each pieceworker in this company works on only one type of item). Write a program to compute the weekly pay for each employee.

You do not know the number of employees in advance. Each type of employee has its own pay code: Managers have code 1, hourly workers have code 2, commission workers have code 3 and pieceworkers have code 4. Use a switch to compute each employee's pay according to that employee's paycode. Within the switch, prompt the user (i.e., the payroll clerk) to enter the appropriate facts your program needs to calculate each employee's pay according to that employee's paycode.

***Good Luck 😊***