**COMSATS University Islamabad,**

**Lahore Campus**

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**Section: B**

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**Programming Fundamentals**

**LAB TASK 02**

**Exercise 1:** Write a program to calculate the electricity bill. The rates of electricity per unit are as follow:

If the units consumed are equal or less than 300, then the cost is Rs. 3/- per unit

If units consumed are more than 300, then the cost is Rs. 3.5/- per unit and surcharge of 5% of bill is added

**Flowchart:**

Start

End

Input Units, Rate, Bill, T.B, S.C

>300

Rate=3.5

S.C=5%

<=300

Rate=3

S.C=0

If units

Bill=Units\*Rate

T. B=Bill + S.C

Print T.B

**C Code:**

#include <stdio.h>

#include <stdlib.h>

/\* This program is prepared by Syed Asad Jamil. Reg no. SP22-BSE-123. Section: B on 27/03/2022

(This Program find the Bill. If units are less than 300 it simply print the total cost of bill but if units are equal or more than 300 it add 5% Ser Charge in Total Bill). \*/

int main()

{

float Bill,Total\_Bill,Units,Rate,SC;

printf("Enter units = ");

scanf("%f",&Units);

Rate=3;

Bill=Units\*Rate;

if(Units<=300)

{

printf("Total Bill = %f",Bill);

}

else

{

Rate=3.5;

Bill=(Units\*Rate);

SC=0.05\*Bill;

Total\_Bill=Bill+SC;

printf("Total Bill = %f",Total\_Bill);

}

return 0;

}

**Output:**

Graphical user interface, text

Description automatically generatedWhen Units are More than 300

When Units are Less than 300

Graphical user interface, text

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