EXPERIMENT NO: 5

TITLE: An electricity board charges the following rates for the use of electricity: for the first 200 units 80 paise per unit: for the next 100 units 90 paise per unit: beyond 300 units Rs 1 per unit. All users are charged a minimum of Rs. 100 as meter charge. If the total amount is more than Rs 400, then an additional surcharge of 15% of total amount is charged. Write a program to read the name of the user, number of units consumed and print out the charges.

PROGRAM:

```
#include <stdio.h>
void main()
   char name[100];
   float unit, charge;
   printf("Enter the name of consumer\n");
   scanf("%s",name);
   printf("Enter the number of units consumed\n");
   scanf("%f",&unit);
   if(unit<=200)
       charge=unit*0.80+100;
   else if(unit<=300)
            charge=(200*0.80) + (unit-200)*0.90+100;
      }
      else
           charge=(200*0.80) + (100*0.90) + (unit-300)*1+100;
  if(charge>400)
     charge+=charge*0.15;
 printf("Consumer Name: %s\n Units consumed: %f\n Rupees: %.2f \n",name,unit,charge);
```

OUTPUTS:

• Enter the name of consumer

Rajesh

Enter the number of units consumed

121

Consumer Name: Rajesh Units consumed: 121 Rupees: 196.80 • Enter the name of consumer

John

Enter the number of units consumed

269

Consumer Name: John Units consumed: 269 Rupees: 322.10

• Enter the name of consumer

Sanjay

Enter the number of units consumed

350

Consumer Name: Sanjay Units consumed: 350

Rupees: 400.00

• Enter the name of consumer

Smith

Enter the number of units consumed

742

Consumer Name: Smith Units consumed: 742 Rupees: 910.80

ALGORITHM:

FLOWCHART:

