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**SUBJECT : - OBJECT ORIENTED PROGRAMMING**

**TOPIC NAME :- LIGHT BILL**

**CODE : -**

#include<iostream> using namespace std; class user

**{**

public:

string name; int mn;

void getdata(string pname)

**{**

name=pname;

**}**

void getdata(int pmn)

**{**

mn=pmn;

**}**

**};**

class electricity:public user

**{**

private:

int mn,pu,cu,n;

float bill; public:

electricity()

**{**

bill=0;

**}**

void getdataf(void); int process(void); void calculate(void); void display(void);

~electricity(){}

**};**

void electricity::getdataf(void)

**{**

cout<<"Enter user Name:"; string name; getline(cin,name); getdata(name); cout<<"Enter meter No."; cin>>mn;

getdata(mn);

cout<<"\n Enter the privious units:"; cin>>pu;

cout<<"\n Enter the current units:";

cin>>cu;

**}**

int electricity::process(void)

**{**

if(cu>pu)

**{**

n=cu-pu; return(1);

**}**

else return(0);

**}**

void electricity::calculate(void)

**{**

int dn; dn=n; if(dn<=50)

**{**

bill=bill+(dn\*2);

**}**

else

**{**

bill=bill+(50\*2); if(dn<=200)

**{**

dn=dn-50; bill=bill+(dn\*3.5);

**}**

else

**{**

bill=bill+(150\*3.5); if(dn<=500)

**{**

dn=dn-200; bill=bill+(dn\*4.5);

**}**

else

**{**

bill=bill+(300\*4.5); dn=dn-500; bill=bill+(dn\*5);

**}}}}**

void electricity::display(void)

**{**

cout<<"\nName:"<<name; cout<<"\n Meter no."<<mn; cout<<"\n Privious unit"<<pu; cout<<"\n Current unit"<<cu;

cout<<"\n No. of units consumed :"<<n; cout<<"\n Bill :"<<bill;

**}**

int main()

**{**

electricity E; int a;

abc:system("cls"); E.getdataf(); a=E.process(); if(a==0)

**{**

cout<<"\n Wrong data Reenter it"; goto abc;

**}**

else

**{**

E.calculate(); E.display();

**}}**

**OUTPUT:-**

