ASSIGNMENT 3 OF C

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// // Q1. The cost of one type of mobile service is Rs.250 plus Rs.1.25 for each
call made over and above 100 calls. Write a program to read calls made and print
the bill for  customer.
// #include<stdio.h>
// void main(){
//     float call,bill;
//     printf("Enter number of call you made:");
//     scanf("%f",&call);
//     if (call>100){
//         call=call-100;
//     }
//     else{
//         call=0;
//     }
//     bill=250+1.25*call;
//     printf("Your Bill : %.2f Rs",bill);
// }
// // Q2. Write a program that determines whether a given integer is odd or even
and displays the number and description on the same line.
// #include<stdio.h>
// void main(){
//     int a;
//     printf("Enter the number : ");
//     scanf("%d",&a);
//     if (a%2==0)
//     {printf("Given number %d is EVEN",a);}
//     else
//     {printf("Given number %d is ODD",a);}
// }
// // Q3.Write a program to find the number of and sum of all integers greater th
an 100 and less than 200 that are divisible by 7.
// #include<stdio.h>
// void main(){
//     int i=101,b=1,sum=0;
//     a:
//     b=i%7==0?7:1;
//     if (b==1)
//     {i+=b;
//     goto a;}
//     c:
//     printf("%d,",i);
//     sum+=i;
//     i+=b;
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//     if (i<200)
//     {goto c;}
//     printf("\nSum of all the number from 101 to 199 which are divisible by 7 i
s %d",sum);
// }
// // Q4. Write a program in “QUANT.C” which “quantifies” numbers. Read an intege
r “x” and test it, producing the following output: x greater than or equal to 100
0 print “hugely positive” x from 999 to 100 (including 100) print “very positive”
 x between 100 and 0 print “positive” x exactly 0 print “zero” x between 0 and -
100 print “negative” x from -100 to - 999 (including -
100) print “very negative” x less than or equal to -
1000 print “hugely negative” Thus -10 would print “negative”, -
100 “very negative” and 458 “very positive”. In the following solution the words
“very” and “hugely” are printed separately from “positive” and “negative”.
// #include<stdio.h>
// void main(){
//     int i;
//     printf("Enter the number : ");
//     scanf("%d",&i);
//     if (i>=1000)
//     {printf("hugely positive");}
//     else if (100<=i && i<1000)
//     {printf("very positive");}
//     else if (0<i && i<100)
//     {printf("positive");}
//     else if (i==0)
//     {printf("zero");}
//     else if (-100<i && i<0)
//     {printf("negetive");}
//     else if (-999<i && i<=-100)
//     {printf("very negetive");}
//     else
//     {printf("hugely negetive");}
// }
// // Q5. Calculate the BMI (Body Mass Index)of a user.
// // bmi=mass(kg)/(height(m))2     ,    bmi=(mass(lb)/(height(in))2)*730
// // Do it in SI units (m and kg; extra credit for feet and inches).Tell the use
r their BMI, then whether they are underweight, healthy, overweight or obese.Thin
k about using( < > >= <=<= etc)?
// // Category  BMI range – kg/m2   BMI Prime
// // Very severely underweight less than 15    less than 0.60
// // Severely underweight  from 15.0 to 16.0   from 0.60 to 0.64
// // Underweight   from 16.0 to 18.5   from 0.64 to 0.74
// // Normal (healthy weight)   from 18.5 to 25 from 0.74 to 1.0
// // Overweight    from 25 to 30   from 1.0 to 1.2
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// // Obese Class I (Moderately obese)  from 30 to 35   from 1.2 to 1.4
// // Obese Class II (Severely obese)   from 35 to 40   from 1.4 to 1.6
// // Obese Class III (Very severely obese) over 40 over 1.6
// #include<stdio.h>
// void main(){
//     float height,weight,bmi;
//     printf("Enter your height in m and weight in kg : ");
//     scanf("%f%f",&height,&weight);
//     bmi=weight/(height*height);
//     printf("Your BMI is %.3f kg/m^2\n",bmi);
//     if (bmi<18.5)
//     {printf("You are Under weight");}
//     else if (bmi>=18.5 && bmi<25)
//     {printf("You are normal ie fit");}
//     else if (bmi>=25 && bmi<30)
//     {printf("You are Over weight");}
//     else
//     {printf("You are Obese");}
// // }
// // Q6. An electric power distribution company charges its domestic consumers a
s follows.Consumption Units Rate of Charge   0-200 Rs.0.50 per unit  ,  201-
400 Rs.100 plus Rs.0.65 per unit ,  401-
600 Rs.230 plus Rs.0.80 per unit .Write a C program that reads the customer numbe
r and power consumed andprints the amount to be paid by the customer.
// #include<stdio.h>
// void main(){
//     float bill;
//     int unit;
//     printf("Enter unit : ");
//     scanf("%d",&unit);
//     if (unit>0 && unit<201)
//     {bill=(unit*0.5);}
//     else if (unit>200 && unit<401)
//     {bill=(unit*0.65)+100;}
//     else
//     {bill=(unit*0.8)+230;}
//     printf("Your electricity bill is %.2f Rs",bill);
// }
```