Structured programming Quiz 2 v1

Student Name /ID:

Write a function in C that calculates/returns an electricity bill based on the number of units consumed unit. The function parameter (units )uses float data type . The pricing scheme is as follows:

* First 100 units: $0.50 per unit
* Next 100 units: $0.75 per unit
* Above 200 units: $1.20 per unit

float calculateElectricityBill(float units) {

float bill = 0.0;

if (units <= 100) {

bill = units \* 0.50;

}

else if (units <= 200) {

bill = (100 \* 0.50) + ((units - 100) \* 0.75);

}

else {

bill = (100 \* 0.50) + (100 \* 0.75) + ((units - 200) \* 1.20);

}

return bill;}

What is the output of this code if the user enters value 1 for the variable choice?

#include <stdio.h>

int main() {

int choice;

int sum=0;

printf("Enter a number (1-5): ");

scanf("%d", &choice);

switch (choice) {

case 1:

sum+=1;

case 2:

sum+=2;

case 3:

sum+=3;

break;

case 4:

sum+=4;

case 5:

sum+=5;

break;

default:

printf("Invalid choice.\n");

}

printf("sum=%d\n",sum);

return 0;

}

sum=6