Structured programming Quiz 2 v3

Student Name /ID:

Write a C function to **calculate/return** parking charges based on one float parameter: **the duration a vehicle is parked**. The pricing structure is as follows:

* The first **2 hours** cost a **flat rate of $5**.
* Each **additional hour** beyond the initial 2 hours costs **$2 per hour**.
* If the total parking fee exceeds **$20**, it is **limited to $20**.

#include <stdio.h>

float calculateParkingFee(int hours) {

float fee;

if (hours <= 2) {

fee = 5; // Flat rate for the first 2 hours

} else {

fee = 5 + (hours - 2) \* 2; // Additional $2 per extra hour

}

// Limit the fee to $20

if (fee > 20) {

fee = 20;

}

return fee;}

What is the output of this code if the user enters **value 4 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++;

case 2:

sum+=2;

case 3:

sum-=3;

break;

case 4:

sum+=4;

case 5:

sum--;

break;

default:

printf("Invalid choice.\n");

}

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

return 0;

}

sum=3