1. **Perfect number**

**Code:**

#include <stdio.h>

// Function to check if a number is perfect or not

int isPerfect(int num) {

int sum = 0;

// Calculate the sum of proper divisors

for (int i = 1; i < num; i++) {

if (num % i == 0) {

sum += i;

}

}

// Check if the sum equals the original number

return sum == num;

}

int main() {

int num;

// Input number from the user

printf("Enter a number: ");

scanf("%d", &num);

// Check if the number is perfect and print the result

if (isPerfect(num)) {

printf("%d is a perfect number.\n", num);

} else {

printf("%d is not a perfect number.\n", num);

}

return 0;

}

**Output:**

Enter a number: 6

6 is a perfect number.

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Process exited after 2.414 seconds with return value 0

Press any key to continue . . .

