1)

#include <iostream>  
int checkNumber(int);  
void isNotPrime();  
int isPrime();  
void fairWarning(int);  
  
int main() {  
  
 int x = 0;  
  
 checkNumber(x);  
   
 return 0;  
}  
  
int checkNumber(int a) {  
  
 std::cout << "Enter an integer: ";  
 std::cin >> a;  
  
 if (a == 2 || a == 3 || a == 5 || a == 7)  
 isPrime();  
 else if (a % 2 == 0 || a % 3 == 0 || a % 5 == 0 || a % 7 == 0)  
 isNotPrime();  
 else if (a <= 1)  
 fairWarning(a);  
 else  
 isPrime();  
  
 return 0;  
}  
  
void isNotPrime() {  
  
 std::cout << "It is not a prime number." << std::endl;  
  
}  
  
int isPrime() {  
  
 std::cout << "It is a prime number." << std::endl;  
  
 return 0;  
}  
  
void fairWarning(int a) {  
  
 std::cout << "The value inputted is invalid."  
 "Try again." << std::endl;  
  
 checkNumber(a);  
  
}

Text

Description automatically generated

2)

#include <iostream>  
  
void isOdd(int);  
void isEven(int);  
  
int main() {  
  
 int x;  
 std::cout << "Enter an number:";  
 std::cin >> x;  
  
 isOdd(x);  
 isEven(x);  
  
 return 0;  
}  
  
void isOdd(int a) {  
  
 if (a % 3 == 0 || a % 5 == 0 || a % 7 == 0)  
 std::cout << "It is an odd number,";  
 else if (a == 1)  
 std::cout << "It is an odd number,";  
 else  
 std::cout << "It is not an odd number,";  
  
}  
  
void isEven(int b) {  
  
 if (b % 2 == 0)  
 std::cout << " but an even number." << std::endl;  
 else  
 std::cout << " not an even number." << std::endl;  
  
}

