

Q.1)

```
#include <stdio.h>
int isPrime(int num) {
    if (num <= 1)
        return 0; // 0 and 1 are not prime numbers
    for (int i = 2; i < num; i++)
    {
        if (num % i == 0)
        {
            return 0; // Number is divisible by i, so it's not prime
        }
    }
    return 1; // Number is prime
}

int main() {
    int number;
    printf("Enter a number: ");
    scanf("%d", &number);
    if (isPrime(number))
    {
        printf("%d is a prime number.\n", number);
    }
    else
    {
        printf("%d is not a prime number.\n", number);
    }

    return 0;
}
```