

## Reverse a Number:

```
#include <stdio.h>

int main() {

    int n, reverse = 0, remainder;

    printf("Enter an integer: ");

    scanf("%d", &n);

    While (n != 0) {

        remainder = n % 10;

        reverse = reverse * 10 + remainder;

        n /= 10;

    }

    printf("Reversed number = %d", reverse);

    return 0;

}
```

## Reverse a Number and Check if it is a Palindrome

```
#include <stdio.h>

int main() {

    int n, reversed = 0, remainder, original;

    printf("Enter an integer: ");

    scanf("%d", &n);

    original = n;

    while (n != 0) {

        remainder = n % 10;
```

```

    reversed = reversed * 10 + remainder;

    n /= 10;

}

if (original == reversed)

printf("%d is a palindrome.", original);

else

printf("%d is not a palindrome.", original);

return 0;

}

```

## **C Program to Add Two Binary Numbers**

```

#include <stdio.h>

int main()

{

    long binary1, binary2;

    int i = 0, remainder = 0, sum[20];

    printf("Enter the first binary number: ");

    scanf("%ld", &binary1);

    printf("Enter the second binary number: ");

    scanf("%ld", &binary2);

    while (binary1 != 0 || binary2 != 0)

    {

        sum[i++] = (binary1 % 10 + binary2 % 10 + remainder) % 2;

        remainder = (binary1 % 10 + binary2 % 10 + remainder) / 2;

        binary1 = binary1 / 10;
    }
}

```

```

    binary2 = binary2 / 10;

}

if (remainder != 0)

sum[i++] = remainder;

--i;

printf("Sum of two binary numbers: ");

while (i >= 0)

printf("%d", sum[i--]);

return 0;

}

```

## Find Prime Numbers in a Given Range

```

#include <stdio.h>

int main() {

    int low, high, i, flag;

    printf("Enter two numbers(intervals): ");

    scanf("%d %d", &low, &high);

    printf("Prime numbers between %d and %d are: ", low, high);

    while (low < high) {

        flag = 0;

        if (low <= 1) {

            ++low;

            continue;

        }

        for (i = 2; i <= low / 2; ++i) {

            if (low % i == 0) {

```

```
        flag = 1;

        break;

    }

}

if (flag == 0)

    printf("%d ", low);

    ++low;

}

return 0;

}
```

## **Leap Year**

```
#include <stdio.h>

#include <stdbool.h>

bool checkYear(int year)
{

    if (year % 400 == 0)

        return true;

    if (year % 100 == 0)

        return false;

    if (year % 4 == 0)

        return true;

        return false;

}

int main()

{
```

```
int year = 2000;

checkYear(year)? printf("Leap Year"):
    printf("Not a Leap Year");

return 0;
}
```