```c
#include <stdio.h>
//b1 and b2 => binary1 and binary2
//rm => remainder
int main() {
  int b1,b2,rm=0,total[16],i=0;
  printf("  --- Binary Addition ---\n\n");

  printf("Enter The First Binary Number: ");
  scanf("%d",&b1);
  printf("\nEnter The Second Binary Number: ");
  scanf("%d",&b2);

  while (b1!=0 || b2!=0) {
    total[i++]=( b1 % 10 + b2 % 10 + rm ) % 2 ;
    rm=( b1 % 10 + b2 % 10 + rm ) / 2;
    b1=b1/10;
    b2=b2/10;
  }
  if (rm!=0) {
    total[i++] = rm;
    --i;
  }
  printf("\nSum Of The Two Binary Numbers : ");
  while(i>=0){
    printf("%d",total[i--]);
  }
  printf("\n");
  return 0;
}
```

```c
#include <stdio.h>

int main() {
    int binary,remainder,decimal = 0 , i = 1 ;

        printf("---BINARY TO DECIMAL CONVERSION PROGRAM---\n\n");

    printf("Enter a Integer Number: ");
    scanf("%d", &binary);

                    while (binary != 0) {
                            remainder = binary % 10;
                            binary /= 10;
                            decimal += remainder * i;
                            i *= 2;
                    }

    printf("\nDecimal Representation : %d\n",decimal);

    return 0;
}
```

```c
#include <stdio.h>

int main(){

	int num;
	printf("--- Middle Digit Finder --- \n\n");

	printf("Please enter an integer with 5 digits : ");
	scanf("%d",&num);

	if(num<=99999 && num >= 10000){

	for(int i = 0 ; i<2 ; i++){
		num=num/10;
	}
	num=num%10;

	printf("Middle Digit is : %d",num);
	}

   else {
	printf("!!! Error Please Enter 5 Digits !!!");
   }
	return 0 ;

}
```

```
#include <stdio.h>

void sum(int num );

int main(){
	int number;

	printf("---Computing Of n+nn+nnn ---\n\n");
	printf("Please Enter An Integer : ");
	scanf("%d",&number);
	sum(number);
	return 0 ;
}

void sum(int num ){

	int total=0,multiplier=1;
	int num1,num2;


	if(10>num && num>=0){
		printf("\nSum of this number (n+nn+nnn) : %d\n",(num+(num*11)+(num*111)));
	}

	else if (num>0){
		while(multiplier<=num){
		multiplier=multiplier*10;
	}
	num1=(num*multiplier)+num;
	num2=(num1*multiplier)+num;
	total=num+num1+num2;

	printf("\nSum of this number (n+nn+nnn) : %d\n",total);
	}

	else{
		multiplier=-1;
		while(multiplier>=num){
		multiplier=multiplier*10;
	}
	multiplier=multiplier*(-1);

	num1=(num*multiplier)+num;
	num2=(num1*multiplier)+num;
	total=num+num1+num2;

	printf("\nSum of this number (n+nn+nnn) : %d\n",total);
	}

}
```

```c
#include <stdio.h>

void d15();
void d3();
void d5();

int main(){

	printf("--- Finding Divisible Numbers ---\n\n");
	printf("Numbers that are divisible by 3 and 5 : \n");
	d15();
	printf("\nNumbers that are divisible by 5 : \n");
	d5();
	printf("\nNumbers that are divisible by 3 : \n");
	d3();
	return 0 ;
}
 void d15(){
	int i ;
	for(i=1 ;i<=100;i++)
	if(i%3==0 && i%5==0 && i%15==0){
		printf("%d  ",i);
	}
	else{
		continue;
	}

}
void d5(){
	int i ;
	for(i=1 ;i<=100;i++)
	if(i%5==0){
		printf("%d  ",i);
	}
	else{
		continue;
	}

}

void d3(){
	int i ;
	for(i=1 ;i<=100;i++)
	if(i%3==0){
		printf("%d  ",i);
	}
	else{
		continue;
	}

}
```

```c
#include <stdio.h>
//n => number
//croll => controller

int prime();

int main(){
  printf("--- Sum of First 100 Prime Numbers ---\n\n");
  printf(" Sum is equal to %d ", prime());

  return 0;
}

int prime(){
  int i, n,croll,sum=0;

  for(n = 1; n <= 541; n++){
    croll = 0;

    for (i = 2; i <= n/2; i++){
      if(n%i == 0){
          croll++;
      }
    }
    if(croll == 0 && n != 1 ){
       sum=sum+n;
    }
  }
       return sum;
}
```

```c
#include <stdio.h>

int main()
{
   int day, month, year, secondMonth = 28 ;

   printf("--- Day Finder ---\n\n");

   printf("Enter date (DD/MM/YYYY): ");
   scanf("%d/%d/%d", &day, &month, &year);

   if( (year % 4 == 0 && year % 100 != 0 ) || (year % 400 == 0) ){
      secondMonth = 29;
   }

   switch(month)
   {
      case 2:
         day += 31;
         break;
      case 3:
         day += 31+secondMonth;
         break;
      case 4:
         day += secondMonth+(2*31);
         break;
      case 5:
         day += secondMonth+(2*31)+30;
         break;
      case 6:
         day += secondMonth+(3*31)+30;
         break;
      case 7:
         day += secondMonth+(3*31)+(2*30);
         break;
      case 8:
         day += secondMonth+(4*31)+(2*30);
         break;
      case 9:
         day += secondMonth+(5*31)+(2*30);
         break;
      case 10:
                  day += secondMonth+(5*31)+(3*30);
         break;
      case 11:
            day += secondMonth+(6*31)+(3*30);
         break;
      case 12:
                  day += secondMonth+(6*31)+(4*30);
         break;
   }

   printf("\nDay of year: %d", day);

   return 0;
}
```

```c
#include <stdio.h>
//n1 and n2 => number1 and number2
//c => prime counter
//n =>number
//croll =>controller

float average(int a , int b);

int main(){
  int n1,n2;
  printf("--- Average of Prime Numbers ---\n\n");
  printf("Please Enter First Value :");
  scanf("%d",&n1);
  printf("Please Enter Second Value :");
  scanf("%d",&n2);

  printf("Average is : %.2f",average(n1,n2));

  return 0;
}

float average(int a, int b){
  int i,c=0,n,croll;
  float sum=0,av=0;

  for(n = a+1; n < b; n++){
    croll = 0;
    for (i = 2; i <= n/2; i++){
      if(n%i == 0){
          croll++;
      }
    }
    if(croll == 0 && n != 1 ){
       c++;
       sum=sum+n;
    }
  }

    av=sum/c;
       return av;
}
```