Accept three floating numbers x,y,z and computer the result of the following expressions :

i . (x*y*z)/(x-y) ii . (2*x)/(y+z)

Input :

```
#include <stdio.h>


int main ()

{

    float x,y,z,operation ; //Three variables


    printf (" Enter your three numbers here : \n") ;


    scanf ("%f %f %f",&x,&y,&z) ;


      operation = (x*y*z)/(x-y) ;


      printf (" The value of operation '(x*y*z)/(x-y)'is %f \n",operation) ;


      operation = (2*x)/(y+z) ;



      printf (" The value of operation '(2*x)/(y+z)'is %f \n",operation) ;



      return 0 ;
```

}

Output :

```
 Enter your three numbers here :
6
7
8
 The value of operation '(x*y*z)/(x-y)'is -336.000000
 The value of operation '(2*x)/(y+z)'is 0.800000
```

Enter a number and carry out modulo division using 2 and 3 and display the remainder

Input :

```
#include <stdio.h>


int main () {

int a,mod_div ;


printf (" Enter your number here : \n") ;


scanf ("%d",&a) ;


mod_div = a%2 ;

printf ( " The value of number after modulo division by 2 is %d \n",mod_div) ;


mod_div = a%3 ;


printf ( " The value of number after modulo division by 3 is %d \n",mod_div) ;




return 0 ;

}
```

Output :

```
 Enter your number here :
35
 The value of number after modulo division by 2 is 1
 The value of number after modulo division by 3 is 2
```

Accept 5 numbers and display the sum of remainders when you divide the numbers by 3

Input :

```
#include <stdio.h>


int main () {

int a,b,c,d,e ,mod_div,sum_remainder = 0;


printf (" Enter your five     number here : \n") ;


scanf ("%d %d %d %d %d",&a,&b,&c,&d,&e) ;

mod_div = a%3 ;

sum_remainder = sum_remainder + mod_div ;

mod_div = b%3 ;

sum_remainder = sum_remainder + mod_div ;

mod_div = c%3 ;

sum_remainder = sum_remainder + mod_div ;

mod_div = d%3 ;

sum_remainder = sum_remainder + mod_div ;

mod_div = e%3 ;

sum_remainder = sum_remainder + mod_div ;

printf ( " The value of sum of remainders is %d",sum_remainder) ;


return 0 ;

}
```

Output :

```
 Enter your five  number here :
16
56
87
34
25
 The value of sum of remainders is 5
```

Shift the entered integer 3 bits to the right and display the result

Input :

```
# include <stdio.h>

int main () {

int a ;

printf ( " Enter the value of your number \n") ;

scanf ("%d",&a) ;

printf ( " The value of your number is %d \n",a) ;

printf ( " The value of number after shifting 3 bits is %d \n",a>>3 ) ;

return 0 ;

}
```

Output :

```
 Enter the value of your number
135
 The value of your number is 135
 The value of number after shifting 3 bits is 16
```

5) Display ASCII equaivalent of the following

i.'A'-'D' ii. 'a'-'D' iii.'d'-'a'

```
#include <stdio.h>


int main ()
 {
        char a,b,c,d ;


          printf ("Enter the values of your four characters \n") ;
          scanf("%c %c %c %c",&a,&b,&c,&d) ;


        printf (" The values of the four characters are %c,%c,%c,%c \n",a,b,c,d) ;


      printf ("The ASCII code of '%c'-'%c' is %d \n ",a,b,a-b) ;
      printf ("The ASCII code of '%c'-'%c' is %d \n ",c,b,c-b) ;
      printf ("The ASCII code of '%c'-'%c' is %d \n ",d,c,d-c) ;




        return 0 ;
 }
```

Output :

```
Enter the values of your four characters
A
D
a
d
 The values of the four characters are A,D,a,d
The ASCII code of 'A'-'D' is -3
 The ASCII code of 'a'-'D' is 29
 The ASCII code of 'd'-'a' is 3
```

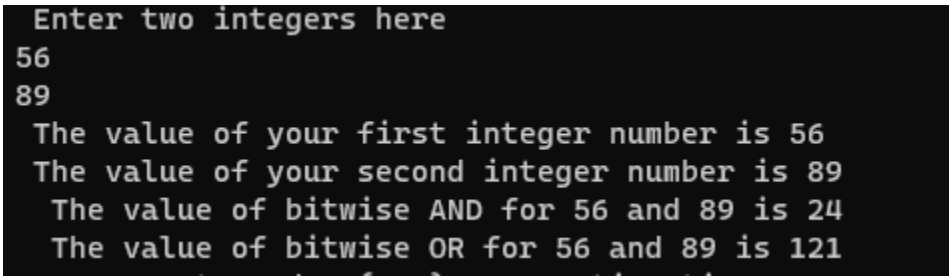
6) Accept 2 integers and perform

i. bitwise AND ii. bitwise OR

Input :

```
#include <stdio.h>


int main () {

int a,b ;


printf ( " Enter two integers here \n") ;


scanf ("%d %d",&a,&b) ;



printf ( " The value of your first integer number is %d \n",a) ;


printf ( " The value of your second integer number is %d \n",b) ;


printf ( "    The value of bitwise AND for %d and %d is %d \n",a,b,a&b) ;


printf ( "    The value of bitwise OR for %d and %d is %d",a,b,a|b) ;


return 0 ;

}
```

Output :


Enter two integers here
56
89
The value of your first integer number is 56
The value of your second integer number is 89
The value of bitwise AND for 56 and 89 is 24
The value of bitwise OR for 56 and 89 is 121

8)Calculate the sum and average of four numbers (with decimal points)

Input :

```
 // Calculate the sum and average of four numbers

#include <stdio.h>

int main () {

float a,b,c,d,sum,average ;

printf (“ Enter your four numbers here  : \n” ) ;

scanf ( “%f%f%f%f”,&a,&b,&c,&d ) ;

printf (“ The four numbers are %f,%f,%f and %f \n”,a,b,c,d ) ;

sum = a + b + c + d ;

printf (“ The sum of the four numbers is %f \n”,sum ) ;

average = a * b * c * d /4 ;

printf (“ The average of the four numbers is %f \n”,average ) ;

return 0 ;

}
```

Output :

```
  Enter your four numbers here  :
 8
6
9
13

  The four numbers are 8.000000,6.000000,9.000000 and 13.000000
 The sum of the four numbers is 36.000000
The average of the four numbers is 9.000000
```