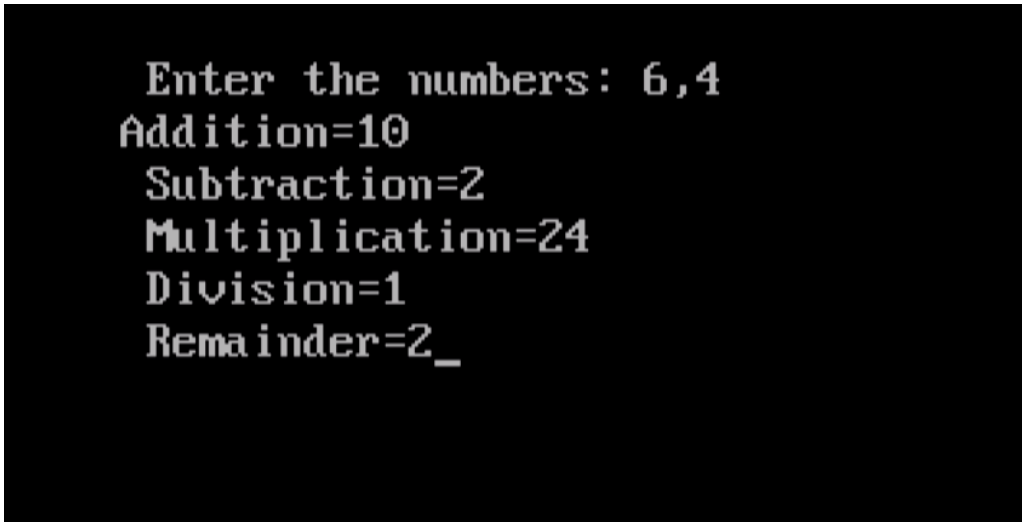
1. **Develop a C program to perform arithmetic operations (addition, subtraction, multiplication, division and remainder) on two integers using pointers.**

```
#include<stdio.h>
#include<conio.h>
void add(int *a,int *b,int *sum)
{
*sum=*a+*b;

}
void sub(int *a,int *b,int *diff)
{
*diff=*a-*b;
}
void mul(int *a,int *b,int *pro)
{
*pro=(*a)*(*b);

}
void div(int *a,int *b,int *divi)
{
*divi=(*a)/(*b);
}
void remainder(int *a,int *b,int *rem)
{
*rem=(*a)%(*b);
}
```

```
void main()
{
int num1,num2,c,d,e,f,g;
clrscr();
printf("\n Enter the numbers: ");
scanf("%d,%d",&num1,&num2);
add(&num1,&num2,&c);
sub(&num1,&num2,&d);
mul(&num1,&num2,&e);
div(&num1,&num2,&f);
remainder(&num1,&num2,&g);
printf("Addition=%d \n Subtraction=%d \n Multiplication=%d \n Division=%d \n Remainder=%d",c,d,e,f,g);
getch();



}
```

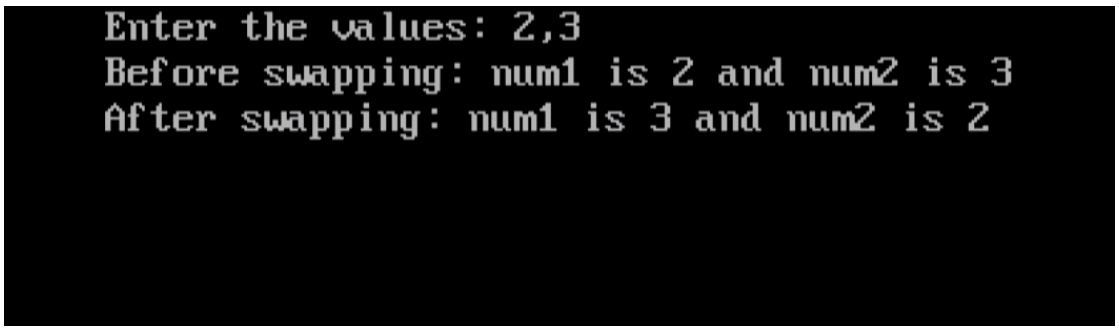
OUTPUTS



2. **Illustrate pointers in swapping two number.**

```
#include<stdio.h>
#include<conio.h>
void swap(int *x,int *y)
{
int t;
t=*x;
*x=*y;
*y=t;
}
void main()
{
int num1,num2;
clrscr();
printf("Enter the values: ");
scanf("%d,%d",&num1,&num2);
printf("Before swapping: num1 is %d and num2 is %d",num1,num2);
swap(&num1,&num2);
printf("\nAfter swapping: num1 is %d and num2 is %d",num1,num2);
getch();
}
```

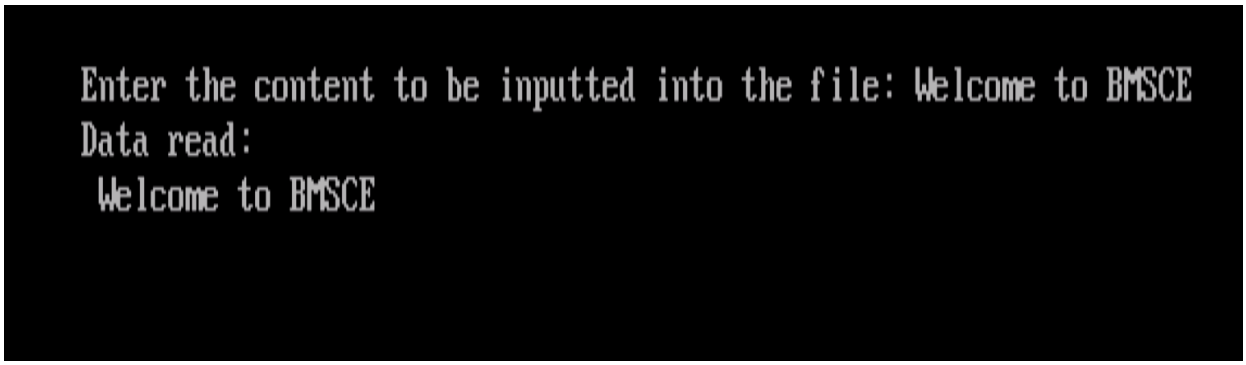
OUTPUTS


Enter the values: 2,3
Before swapping: num1 is 2 and num2 is 3
After swapping: num1 is 3 and num2 is 2

3. **Demonstrate how to read data from the keyboard, write it to a file called BMSCE, again read the same data from the BMSCE file, and display it on the screen/console.**

```
#include<stdio.h>
#include<conio.h>
void main()
{
FILE * fp;
char input[100];
int i;
clrscr();
fp=fopen("C:\\TURBOC3\\BIN\\BMSCE.txt","w");
printf("\nEnter the content to be inputted into the file: ");
gets(input);
fprintf(fp,"%s",input);
fp=fopen("C:\\TURBOC3\\BIN\\BMSCE.txt","r");
printf("Data read:");
fscanf(fp,"%s",input);
printf("\n %s",input);
fclose(fp);
getch();

}
```

OUTPUTS


Enter the content to be inputted into the file: Welcome to BMSCE
Data read:
Welcome to BMSCE