

## **EXPERIMENT N0-10**

**AIM: Write mixed language program to perform addition, subtraction and division of two decimal numbers.**

### **CODE:**

```
#include<stdio.h>
#include<conio.h>
void add(int a,int b);
void sub(int a,int b);
void mul(int a,int b);
void div(int a,int b);
int a,b,ch;
void main(void)
{
clrscr();
do
{
printf("1)Addition\t2)Subtraction\t3)Multiplication\t4)Division :\n");
scanf("%d",&ch);
printf("Enter Two Numbers :\n");
scanf("%d\n%d",&a,&b);
switch(ch)
{
case 1:
add(a,b);
break;
case 2:
sub(a,b);
```

```
break;
case 3:
mul(a,b);
break;
case 4:
div(a,b);
break;
default:
printf("Wrong Input");
break;
}
}while(ch!=5);
getch();
}
void add(int a,int b)
{
int ans;
asm mov ax,a;
asm mov bx,b;
asm add ax,bx;
asm mov ans,ax;
printf("The Addition is : %d\n",ans);
}
void sub(int a,int b)
{
int ans;
asm mov ax,a;
```

```

asm mov bx,b;
asm sub ax,bx;
asm mov ans,ax;
printf("The Subtraction is : %d\n",ans);
}

void mul(int a,int b)
{
int ans;
asm mov ax,a;
asm mov bx,b;
asm mul bx;
asm mov ans,ax;
printf("The Multiplication is : %d\n",ans);
}

void div(int a,int b)
{
int ans,ans1;
asm mov ax,a;
asm mov bx,b;
asm div bx;
asm mov ans1,dx;
asm mov ans,ax;
printf("The Remainder is : %d\nThe Quotient is : %d\n",ans1,ans);
}

```

## OUTPUT:

```
1)Addition      2)Subtraction  3)Multiplication  4)Division :
1
Enter Two Numbers :
20
10
The Addition is : 30
1)Addition      2)Subtraction  3)Multiplication  4)Division :
2
Enter Two Numbers :
20
10
The Subtraction is : 10
1)Addition      2)Subtraction  3)Multiplication  4)Division :
3
Enter Two Numbers :
5
4
The Multiplication is : 20
1)Addition      2)Subtraction  3)Multiplication  4)Division :
-
```

```
Enter Two Numbers :
20
10
The Addition is : 30
1)Addition      2)Subtraction  3)Multiplication  4)Division :
2
Enter Two Numbers :
20
10
The Subtraction is : 10
1)Addition      2)Subtraction  3)Multiplication  4)Division :
3
Enter Two Numbers :
5
4
The Multiplication is : 20
1)Addition      2)Subtraction  3)Multiplication  4)Division :
4
Enter Two Numbers :
20
4
The Remainder is : 0
The Quotient is : 5
1)Addition      2)Subtraction  3)Multiplication  4)Division :
```