

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

```
#include<stdio.h>

int main()
{
    int no1,no2;
    int *ptr1,*ptr2;
    int sum,sub,mult;
    float div;
    printf("Enter number1:\n");
    scanf("%d",&no1);
    printf("Enter number2:\n");
    scanf("%d",&no2);
    ptr1=&no1;
    ptr2=&no2;
    sum=(*ptr1) + (*ptr2);
    sub=(*ptr1) - (*ptr2);
    mult=(*ptr1) * (*ptr2);
    div=(*ptr1) / (*ptr2);
    printf("sum= %d\n",sum);
    printf("subtraction= %d\n",sub);
    printf("Multiplication= %d\n",mult);
    printf("Division= %f\n",div);
    return 0;
}
```

```
Enter number1:
20
Enter number2:
10
sum= 30
subtraction= 10
Multiplication= 200
Division= 2.000000
```

## 2. Illustrate pointers in swapping two numbers

```
#include <stdio.h>
void swap(int *,int *x);
int main()
{
    int num1,num2;
    printf("Enter value of num1: ");
    scanf("%d",&num1);
    printf("Enter value of num2: ");
    scanf("%d",&num2);
    printf("Before Swapping: num1 is: %d, num2 is:
%d\n",num1,num2);
    swap(&num1,&num2);
    printf("After Swapping: num1 is: %d, num2 is:
%d\n",num1,num2);
    return 0;
}

void swap(int *x,int *y)
{
    int t;
    t = *x;
    *x = *y;
    *y = t;
}
```

```
Enter value of num1: 10
Enter value of num2: 20
Before Swapping: num1 is: 10, num2 is: 20
After Swapping: num1 is: 20, num2 is: 10
```

3. Demonstrate how to read data from 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>
int main()
{
    char feedback[40];
    FILE *fp;
    fp=fopen("BMSCE.txt","w");
    printf("Write something about BMSCE\n");
    fgets(feedback,200,stdin);
    fputs(feedback,fp);
    fclose(fp);fp=fopen("BMSCE.txt","r");
    printf("Data read from the file:\n");
    while(fgets(feedback,200,fp) != NULL)
    {
        printf("%s",feedback);}
    return 0;
}
```

```
Write something about BMSCE
Hello everyone,this is Varun from BMSCE.BMSCE is one of the oldest private colleges
Data read from the file:
Hello everyone,this is Varun from BMSCE.BMSCE is one of the oldest private colleges
```