1.Write a menu driven C Program to design a simple calculator which solves 10 operations - 4 Arithmetic, 4 Relational and any two of your choice. The program should loop till the user wishes to stop.

```
#include<stdio.h>
#include<math.h>
float fac(int n)
{
      int i;
      float fac1=1;
      for(i=n;i>0;i--)
      {
             fac1*=i;
      }
      return fac1;
}
int main()
{
      char c1;
      int n1,n2,c2,Pow;
      do
      {
              printf("\n1.Add\n2.Subtract\n3.Multiply\n4.Divide\n5.Greater than(>)\n6.Lesser
than(<)\n7.Not Equal(!=)\n8.Equal(==)\n9.Factorial\n10.Power(n1^n2)\n\n");
             scanf("%d",&c2);
             switch(c2)
             {
                    case 1: printf("Enter the 2 numbers\n");
                                  scanf("%d%d",&n1,&n2);
                                  printf("Result is: %d",n1+n2);
                                  break;
                    case 2: printf("Enter the 2 numbers\n");
                                  scanf("%d%d",&n1,&n2);
```

```
printf("Result is: %d",n1-n2);
                  break;
    case 3: printf("Enter the 2 numbers\n");
                  scanf("%d%d",&n1,&n2);
                  printf("Result is: %d",n1*n2);
                  break;
    case 4: printf("Enter the 2 numbers\n");
                  scanf("%d%d",&n1,&n2);
                  printf("Result is: %f",(n1/(float)n2));
                  break;
case 5: printf("Enter the 2 numbers\n");
                  scanf("%d%d",&n1,&n2);
                  if(n1>n2)
                  printf("%d greater than %d",n1,n2);
                  else
                  printf("%d not greater than %d",n1,n2);
                  break;
    case 6: printf("Enter the 2 numbers\n");
                  scanf("%d%d",&n1,&n2);
                  if(n1<n2)
                  printf("%d lesser than %d",n1,n2);
                  else
                  printf("%d not lesser than %d",n1,n2);
                  break;
    case 7: printf("Enter the 2 numbers\n");
                 scanf("%d%d",&n1,&n2);
```

```
if(n1!=n2)
                    printf("%d not equal %d",n1,n2);
                    else
                    printf("%d equal to %d",n1,n2);
                    break;
      case 8: printf("Enter the 2 numbers\n");
                    scanf("%d%d",&n1,&n2);
                    if(n1==n2)
                    printf("%d equal to %d",n1,n2);
                    else
                    printf("%d not equal to %d",n1,n2);
                    break;
      case 9: printf("Enter the number\n");
                    scanf("%d",&n1);
                    printf("Factorial is: %f",fac(n1));
                    break;
      case 10:printf("Enter the number and the power to be raised\n");
                    scanf("%d%d",&n1,&n2);
                    Pow=pow(n1,n2);
                    printf("Result is: %d",Pow);
                    break;
      default: printf("Invalid Choice\n");
printf("\nDo you want to continue?(y-yes else any character)\n");fflush(stdin);
scanf("%c",&c1);
```

}

```
}while(c1=='y'||c1=='Y');
return 0;
```

}

```
1.Add
2.Subtract
3.Multiply
4.Divide
5.Greater than(>)
6.Lesser than(<)
7.Not Equal(!=)
8.Equal(==)
9.Factorial
10.Power(n1^n2)
Enter the number
Factorial is: 120.000000
Do you want to continue?(y-yes else any character)
1.Add
2.Subtract
3.Multiply
4.Divide
5.Greater than(>>
6.Lesser than(<>>
7.Not Equal(!=>>
8.Equal(==>
9.Factorial
10.Power(n1^n2>
Enter the 2 numbers
2 equal to 2
Do you want to continue?(y-yes else any character)
1.Add
2.Subtract
3.Multiply
4.Divide
5.Greater than(>)
6.Lesser than(<)
7.Not Equal(!=)
8.Equal(==)
9.Factorial
10.Power(n1^n2)
Enter the number and the power to be raised
Result is: 25
Do you want to continue?(y-yes else any character)
Process exited after 26.27 seconds with return value 0
 Press any key to continue . .
```