```
#include <stdio.h>
int calculator(int,int);
int main()
{
   int a,b;
   printf("Enter the two numbers respectively\n");
   scanf("%d %d",&a,&b);
   calculator(a,b);



}
int calculator(int a,int b)
{
   char ch='y';
   int sum,sums;
   printf("1:Addition\n2:substraction\n3:multiplication\n4:division\n5:checking equality\n6:finding the greater no \n7:finding the smaller nos\n8:check if sum is greater than 100\n9:all squares between two numbers\n10:find sum of square\n");
   while(ch=='y')
   {
      int result;
      int op;
      printf("Enter your choice\n");
      scanf(" %d",&op);
      switch(op)
      {
         case 1:
         result=a+b;
         printf("Result is %d \n",result);
         break;


         case 2:
```

```
if(a>b)
{
   result=a-b;
}
else
{
   result=b-a;
}
printf("Result is %d \n",result);
break;

case 3:
result=a*b;
printf("Result is %d \n",result);
break;

case 4:
result=a/b;
printf("Result is %d \n",result);
break;

case 5:
if(a==b)
{
  printf(" they are equal \n");
}
else
{
  printf("they are not equal\n");
}
break;
```

```
case 6:
if(a>b)
{
  printf("%d is greater than %d\n",a,b);
}
else
{
  printf("%d is greater than %d\n",b,a);
}

break;

case 7:
if(a<b)
{
  printf("%d is smaller than %d\n",a,b);
}
else
{
  printf("%d is smaller than %d\n",b,a);
}
break;

case 8:
 sum=a+b;
if(sum<100)
{
  printf("sum is less than 100\n");
}
else if(sum==100)
```

```
    {
      printf("sum is equal to 100\n");
    }
    else
    {
      printf("sum is greater than 100\n");
    }
    break;

    case 9:

    for(int i=a;i<=b;i++)
    {
      printf("%d\n",i*i);
    }
    break;

    case 10:
    sums=a*a+b*b;
    printf("sum of the squares is %d\n",sums);
    break;
}



printf("enter N to exit and y to continue\n");
scanf(" %c",&ch);
if(ch=='N')
{
    break;
}
```

```
        else
        {
            continue;
        }

    }



}
```

```
Enter the two numbers respectively
10
5
1:Addition
2:substraction
3:multiplication
4:division
5:checking equality
6:finding the greater no
7:finding the smaller nos
8:check if sum is greater than 100
9:all squares between two numbers
10:find sum of square
Enter your choice
9
enter N to exit and y to continue
y
Enter your choice
8
sum is less than 100
enter N to exit and y to continue
y
Enter your choice
7
5 is smaller than 10
enter N to exit and y to continue
y
Enter your choice
2
Result is 5
enter N to exit and y to continue
y
Enter your choice
1
Result is 15
enter N to exit and y to continue
y
Enter your choice
6
10 is greater than 5
```