

```

#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:Add\n2:subbtract\n3:multiply\n4:divide\n5:check equality\n6:find greater \n7:find small\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;
    }
}
}

```

```

Input
Enter the two numbers respectively
5 9
1:add
2:subtract
3:multiply
4:divide
5:check equality
6:find greater
7:find small
8:check if sum is greater than 100
9:all squares between two numbers
10:find sum of square
Enter your choice
1
Result is 14
enter N to exit and y to continue
y
Enter your choice
2
Result is 4
enter N to exit and y to continue
y
Enter your choice
3
Result is 45
enter N to exit and y to continue
y
Enter your choice
4
Result is 0
enter N to exit and y to continue
y
Enter your choice
10
sum of the squares is 106
enter N to exit and y to continue
N

...Program finished with exit code 0
Press ENTER to exit console.

```