

```

#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:subbbtract\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:
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
4
5
1:Add
2:subbtract
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
4
Result is 0
enter N to exit and y to continue
y
Enter your choice
10
sum of the squares is 41
enter N to exit and y to continue
N

[Program finished]
```