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//Samarth 1BM19CS141
#include <stdio.h>
int calci(int,int);
int main()
{
 int a,b;
 printf("Enter the two numbers \n");
 scanf("%d %d",&a,&b);
 calci(a,b);



}
int calci(int a,int b)
{
 char ch='y';
 int sum,sums;
 printf("1:Add\n2:subtract\n3:multiply\n4:divide\n5:check equality\n6:find greater
\n7:findsmall\n8:check if sum is greater than 100\n9:all squares between two numbers\n10:find
sum ofsquare\n");
 while(ch=='y')
 {
 int result;
 int c;
 printf("Enter your choice\n");
 scanf(" %d",&c);
 switch(c)
 {
 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
2 4
1:Add
2:subtract
3:multiply
4:divide
5:check equality
6:find greater
7:findsmall
8:check if sum is greater than 100
9:all squares between two numbers
10:find sum ofsquare
Enter your choice
1
Result is 6
enter N to exit and y to continue
y
Enter your choice
2
Result is 2
enter N to exit and y to continue
y
Enter your choice
3
Result is 8
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
5
they are not equal
enter N to exit and y to continue
y
Enter your choice
6
4 is greater than 2
enter N to exit and y to continue
y
Enter your choice
7
2 is smaller than 4
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
9
4
9
16
enter N to exit and y to continue
y
Enter your choice
10
sum of the squares is 20
enter N to exit and y to continue
```