```
#include <stdio.h>
#include<math.h>
int main()
    int a,b,ch;
    do
    {
              ("1:Addition\n2:Subtraction\n3:Multiplication\n4:Division\n");
              ("5:Greatest\n6:Smallest\n7:Equality\n8:Inequality\n");
              ("9:Average\n10:Powers\n11:Exit\n");
              ("enter choice\n");
             ("%d",&ch);
        if(ch==11)
        break:
              ("enter the two numbers\n");
             ("%d %d",&a,&b);
        switch(ch)
            case 1:
                  ("Sum is %d\n",a+b);
            break:
            case 2:
                 rf("%d - %d is %d\n",a,b,a-b);
                  f("%d - %d is %d\n",b,a,b-a);
            break;
            case 3:
                  ("product is %d\n",a*b);
            break;
            case 4:
                  f("%d - %d is %f\n",a,b,(float)(a/b));
                  ("%d - %d is %f\n",b,a,(float)(b/a));
            break;
```

```
case 5:
if(a>b)
printf("%d is greatest\n",a);
else if(b>a)
printf("%d is greatest\n",b);
else
printf("they are equal\n");
break;
case 6:
if(a<b)
printf("%d is smallest\n",a);
else if(b<a)
printf("%d is smallest\n",b);
else
printf("they are equal\n");
break:
case 7:
if(a==b)
printf("they are equal\n");
else
printf("they are not equal\n");
break;
case 8:
if(a!=b)
     f("they are inequal\n");
else
     ("they are not inequal\n");
break;
case 9:
     ("average is %f\n",(float)((a+b)/2));
break;
```

```
case 10:
        printf("%d ^ %d is %f\n",a,b,pow(a,b));
        printf("%d ^ %d is %f\n",b,a,pow(b,a));
        break;
        case 11:
        break;
        default:
        printf("wrong choice!\n");
        break;
}while(ch!=11);
return 0;
```

```
1:Addition
2:Subtraction
3:Multiplication
4:Division
5:Greatest
6:Smallest
7:Equality
8:Inequality
9:Average
10:Powers
11:Exit
enter choice
1
enter the two numbers
3
Sum is 5
1:Addition
2:Subtraction
3:Multiplication
4:Division
5:Greatest
6:Smallest
7:Equality
8:Inequality
9:Average
10:Powers
11:Exit
enter choice
```

```
enter choice
10
enter the two numbers
4 ^ 2 is 16.000000
```

2 ^ 4 is 16.000000

```
1:Addition
2:Subtraction
3:Multiplication
4:Division
5:Greatest
6:Smallest
7:Equality
8:Inequality
9:Average
10:Powers
11:Exit
enter choice
11
```

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