

```
#include <stdio.h>
#include <math.h>
```

18M19CS045
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```
int main()
{
    int a, b, c;
    printf("Enter a and b\n");
    scanf("%d %d", &a, &b);
    while(1)
    do
    {
        printf("1. ADD\n 2. SUBTRACT\n 3. MULTIPLICATION\n 4. DIVISION\n\n 5. GREATER THAN\n 6. LESSER THAN\n 7. EQUAL\n 8. NOT\n 9. REMAINDER (MODULUS)\n 10. EXPONENTIAL\n 0. EXIT\n");
        scanf("%d", &c);
        switch(c)
        {
            case 1: printf("a+b = %d\n", a+b);
                     break;
            case 2: printf("a-b = %d\n", a-b);
                     break;
            case 3: printf("a*b = %d\n", a*b);
                     break;
            case 4: if (b == 0)
                      { printf("Divisor can't be zero\n"); }
                    else
                      { printf("a/b = %f\n", (float)(a/b)); }
                     break;
            case 5: if (a > b)
                      { printf("a is greater\n"); }
                    else
                      { printf("b is greater\n"); }
                     break;
            case 6: if (a < b)
                      { printf("a is lesser\n"); }
                    else
                      { printf("b is lesser\n"); }
                     break;
            case 7: if (a == b)
                      { printf("both are equal\n"); }
                    else
                      { printf("They are not equal\n"); }
                     break;
        }
    }
}
```

```
case 8: printf("NOT of a and b are %d, %d\n", !a, !b);  
    break;  
case 9: if (b == 0)  
    { printf("Divisor cannot be zero\n"); }  
    else  
    { printf("%d", a % b); }  
    break;  
case 10: printf("a raised b is %f", pow(a, b));  
    break;  
default: if (c != 0)  
    printf("Enter valid number");  
    {  
    }  
    while (c != 0);  
    return 0;  
}
```



```

1  #include<stdio.h>
2  #include<math.h>
3  int main()
4  { int a,b,c;
5      printf("Enter a and b\n");
6      scanf("%d%d",&a,&b);
7      do
8      {printf("1.ADD\n2.SUBTRACT\n3.MULTIPLICATION\n4.DIVISION\n5.GREATER
          THAN\n6.LESSER THAN\n7.EQUAL\n8.NOT\n9.REMAINDER(MODULUS)
          \n10.EXPONENTIAL\n0.EXIT\n");
9          scanf("%d",&c);
10         switch(c)
11         { case 1: printf("a+b=%d\n",a+b);
12             break;
13             case 2: printf("a-b=%d\n",a-b);
14                 break;
15             case 3: printf("a*b=%d\n",a*b);
16                 break;
17             case 4: if(b==0)
18                     {printf("Divisor cant be zero\n");}
19                     else
20                     {printf("a/b=%f\n",(float)(a/b));}
21                     break;
22             case 5: if(a>b)
23                     {printf("a is greater\n");}
24                     else
25                     {printf("b is greater\n");}
26                     break;
27             case 6: if(a<b)
28                     {printf("a is lesser\n");}
29                     else
30                     {printf("b is lesser\n");}
31                     break;
32             case 7: if(a==b)

```

```

1  ./main
Enter a and b
21
10
1.ADD
2.SUBTRACT
3.MULTIPLICATION
4.DIVISION
5.GREATER THAN
6.LESSER THAN
7.EQUAL
8.NOT
9.REMAINDER (MODULUS)
10.EXPONENTIAL
0.EXIT
1
a+b=31
1.ADD
2.SUBTRACT
3.MULTIPLICATION
4.DIVISION
5.GREATER THAN
6.LESSER THAN
7.EQUAL
8.NOT
9.REMAINDER (MODULUS)
10.EXPONENTIAL
0.EXIT
9
1
1.ADD
2.SUBTRACT
3.MULTIPLICATION
4.DIVISION
5.GREATER THAN
6.LESSER THAN
7.EQUAL
8.NOT
9.REMAINDER (MODULUS)
10.EXPONENTIAL
0.EXIT

```