1BM19CS045
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```
#include<stdio.h>
#include<math.h>
int main()
{ int a,b,c;
  printf("Enter a and b \n");
  scanf("%d %d", &a, &b);
  ~~while~~
  do
  { printf(" 1. ADD \n 2. SUBTRACTION 3. MULTIPLICATION \n 4. DIVISION \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 %od, %od \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;
}
```

```c
#include<stdio.h>
#include<math.h>
int main()
{ int a,b,c;
  printf("Enter a and b\n");
  scanf("%d%d",&a,&b);
  do
  {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");
    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 cant 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)
```

```
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
```