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SECTION :- 343 (21 batch)

```
1) #include <stdio.h>
#include <math.h>
void calculator(int, int);
int main()
{
    int a, b;
    printf("Enter the two numbers respectively \n");
    scanf("%d %d", &a, &b);
    calculator(a, b);
}

void calculator(int a, int b)
{
    int sum, result, opt;
    float avg;
    printf("1: Add \n 2: Subtract \n 3: Multiply \n 4: Divide \n
    5: Check equality \n 6: Find greater \n 7: Find smaller \n
    8: Check if sum is even \n 9: Modulus \n
    10: Increment \n");
    printf("Enter your choice \n");
    scanf("%d", &opt);
    while (opt != 0)
    {
        switch (opt)
        {
            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 % 2 == 0)
```

```
{  
    printf ("sum is even\n");  
}
```

```
}
```

```
else
```

```
{  
    printf ("sum is odd\n");  
}
```

```
break;
```

case 9:

```
printf ("%d modulus %d = %d \n", a, b, a%b);  
break;
```

case 10:

```
printf ("%d ++ = %d \n", a, a+1);  
printf ("%d ++ = %d \n", b, b+1);  
break;  
}
```

case 10:

```
printf ("%d ++ = %d \n", a, a+1);  
printf ("%d ++ = %d \n", b, b+1);  
break;  
default : printf("WRONG INPUT !! \n");
```

}

```
printf ("Enter 0 to EXIT or choose an option from  
1 to 10 \n");
```

}

}

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

```
float sumaver (int, int);
```

```
void printaver (int, int);
```

```
int main ()
```

```
{
```

```
    int a, b, c, g1, g2;
```

```
    float avg;
```

```
    printf("Enter 3 numbers \n");
```

```
    scanf("%d %d %d", &a, &b, &c);
```

```
    if (a > b && a > c)
```

```
    {
```

```
        g1 = a;
```

```
        g2 = b > c ? b : c;
```

```
    }
```

```
    else if (b > c && b > a)
```

```
    {
```

```
        g1 = b;
```

```
        g2 = a > c ? a : c;
```

```
    }
```

```
    else if (c > a && c > b)
```

```
    {
```

```
        g1 = c;
```

```
        g2 = a > b ? a : b;
```

```
    }
```

```
    avg = sumaver (g1, g2);
```

```
    printf("The average of the two numbers are = %f \n", avg);
```

```
    printeven(g1, g2);  
}
```

```
float sumaver (int g1, int g2)
```

```
{
```

```
    float avg;
```

```
    printf("The sum of the two numbers are = %d\n",  
           (g1+g2));
```

```
    avg = ((float) (g1+g2)) / 2;
```

```
    return avg;
```

```
}
```

```
void printeven (int g1, int g2)
```

```
{
```

```
    int i, x, y;
```

```
    printf("The even numbers between are: \n");
```

```
    if (g1 < g2)
```

```
    {  
        x = g1;
```

```
        y = g2;
```

```
    }
```

```
    else
```

```
    {  
        x = g2;
```

```
        y = g1;
```

```
    }
```

```
    for (i = x+1; i < y; i++)
```

```
    {  
        if (i % 2 == 0)
```

```
            printf("%d\n", i);
```

```
    }
```

```
}
```