

PROGRAM-1

```
#include<stdio.h>

#include<math.h>

void main()

{

int a,b,c;

printf("Enter the first number\n");

scanf("%d",&a);

printf("Enter the second number\n");

scanf("%d",&b);

while(1)

{

printf("\nEnter the choice\n");

printf("\n 1-Addition \n 2-Subtraction \n 3-Multiplication \n 4-Division");

printf("\n 5-Greatest of two numbers \n 6-Smallest of two numbers \n 7-The two numbers are equal \n 8-The two numbers are not equal \n 9-Remainder \n 10-Average\n 0-To exit\n");

scanf("%d",&c);

switch(c)

{

case 1:

printf("Sum=%d",a+b);

break;

case 2:

printf("Difference=%d",a-b);
```

```
break;
```

case 3:

```
printf("Product=%d",a*b);
```

```
break;
```

case 4:

```
printf("Quotient=%d",a/b);
```

```
break;
```

case 5:

```
if(a>b)
```

```
printf("The Greatest number among the two is %d",a);
```

```
else
```

```
printf("The Greatest number among the two is %d",b);
```

```
break;
```

case 6:

```
if(a<b)
```

```
printf("The Smallest number among the two is %d",a);
```

```
else
```

```
printf("The Smallest number among the two is %d",b);
```

```
break;
```

case 7:

```
if(a==b)
```

```
printf("True\n");
```

```
else
```

```
printf("False\n");
```

```
break;
```

```
case 8:
```

```
if(a!=b)
```

```
printf("True\n");
```

```
else
```

```
printf("False\n");
```

```
break;
```

```
case 9:
```

```
printf("Remainder=%d",a%b);
```

```
break;
```

```
case 10: ;
```

```
printf("Average=%f",(a+b)/2.0);
```

```
break;
```

```
case 0:
```

```
exit(0);
```

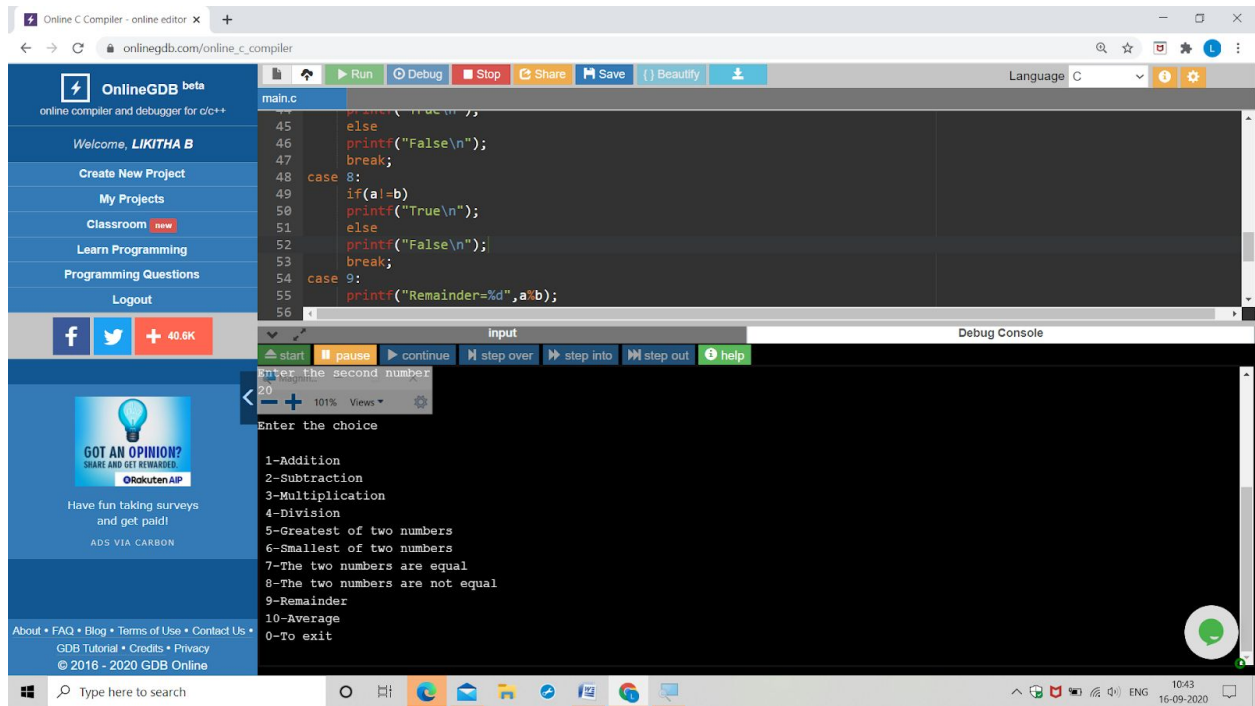
```
default:
```

```
printf("Invalid input!Please try again later\n");
```

```
}
```

```
}
```

```
}
```



PROGRAM-2

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

```
float sumaver(int x,int y)
```

```
{
    printf("Sum: %d\\n",x+y);
    return((x+y)/2);
}
```

```
void printeven(int x,int y)
```

```
{
    printf("All the even numbers from %d to %d\\n",y,x);
}
```

```
    for(int i=y;i<=x;i++)  
    {  
        if(i%2==0)  
            printf("%d ",i);  
    }  
}
```

```
int main()  
{  
    int a[3],g1,g2,t;  
    printf("Enter the three numbers\n");  
    scanf("%d%d%d",&a[0],&a[1],&a[2]);  
    for(int i=0;i<3;i++)  
    {  
        for(int j=i+1;j<3;j++)  
        {  
            if(a[i]<a[j])  
            {  
                t=a[i];  
                a[i]=a[j];  
                a[j]=t;  
            }  
        }  
    }  
}
```

```
}
```

```
g1=a[0];
```

```
g2=a[1];
```

```
float aver=sumaver(g1,g2);
```

```
printf("Average: %f\n",aver);
```

```
prnteven(g1,g2);
```

```
return 0;
```

```
}
```

The screenshot displays the GDB online Debugger interface. The main window shows the source code of a C program named `main.c`. The code defines an array `a` of size 3, initializes `g1` and `g2` with `a[0]` and `a[1]` respectively, calculates the average using `sumaver`, and prints the result. The program is run, and the output is displayed in the Debug Console. The output shows the average as 6.000000.

```
main.c
21 int a[3],g1,g2,t;
22 printf("Enter the three numbers\n");
23 scanf("%d%d%d",&a[0],&a[1],&a[2]);

Input
start pause continue step over step into step out help
Reading symbols from a.out...done.
/usr/share/gdb/gdbinit: No such file or directory.
(gdb) run
Starting program: /home/a.out
Enter the three numbers
5
6
7
Sum: 13
Average: 6.000000
All the even numbers from 6 to 7
6 [Inferior 1 (process 526) exited normally]
(gdb)
```

The right sidebar contains panels for Call Stack, Local Variables, Display Expressions, and Breakpoints and Watchpoints. The bottom status bar shows the system time as 10:55 on 16-09-2020.