Program number 1

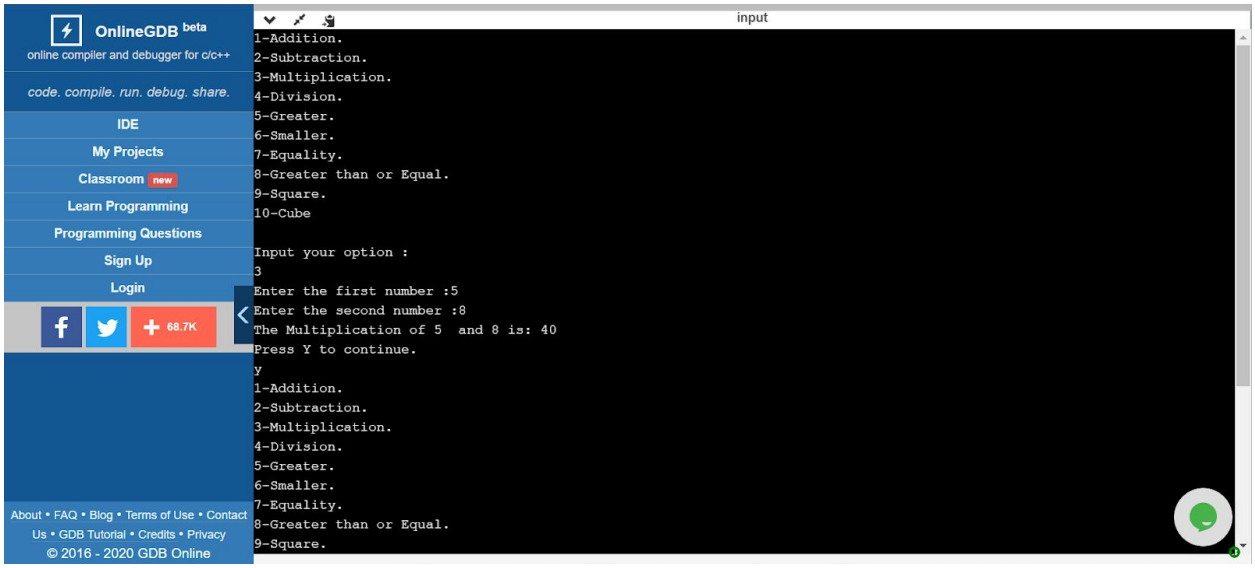
Write a menu driven C Program to design a simple calculator which solves 10 operations - 4 Arithmetic, 4 Relational and any two of your choice. The program should loop till the user wishes to stop.

```
#include <stdio.h>
void main() {
  int num1,num2,opt;
  char answer;
  do{

printf("1-Addition.\n2-Subtraction.\n3-Multiplication.\n4-Division.\n5-Greater.\n6-Smaller.\n7-Equ
ality.\n8-Greater than or Equal.\n9-Square.\n10-Cube\n");
  printf("\nInput your option :\n");
  scanf("%d",&opt);
  printf("Enter the first number :");
  scanf("%d",&num1);
  printf("Enter the second number :");
  scanf("%d",&num2);


    switch(opt)
    {
      case 1:
        printf("The Addition of  %d and %d is: %d\n",num1,num2,num1+num2);
        break;

      case 2:
        printf("The Subtraction of %d  and %d is: %d\n",num1,num2,num1-num2);
        break;

      case 3:
        printf("The Multiplication of %d  and %d is: %d\n",num1,num2,num1*num2);
        break;

      case 4:
        if(num2==0) {
          printf("The second integer is zero. Devide by zero.\n");
        }
        else {
          printf("The Division of %d  and %d is : %d\n",num1,num2,num1/num2);
```

```
      }
      break;

    case 5:
    if (num1>num2)
    {
    printf("The Greater number is %d",num1);
    }
    else {
        printf("The Greater number is %d",num2);
    }
      break;


 case 6:
   if (num1<num2)
   {
    printf("The Smaller number is %d",num1);
    }
    else {
        printf("The Smaller number is %d",num2);
    }
      break;


case 7:

   if (num1==num2)
   {
   printf("The numbers are Equal");
   }
   else
   {
   printf("The numbers are not Equal");
   }
   break;


 case 8:
   if(num1>=num2)
   {
   printf("The Number %d is greater  than or equal to %d",num1,num2);
   }
```

```
   else
   {
   printf("The Number %d is greater  than or equal to %d",num2,num1);
   }
   break;


   case 9:

     printf("The Square of %d is %d\n",num1,num1*num1);
     printf("The Square of %d is %d\n",num2,num2*num2);
     break;


   case 10:
     printf("The Cube of %d is %d\n",num1,num1*num1*num1);
     printf("The Cube of %d is %d\n",num2,num2*num2*num2);
     break;

      default:
      printf("Option not available\n");
      break;

  }
    printf("Press Y to continue.\n");
   scanf(" %c",&answer);
}


while(answer == 'y' || answer == 'Y');

 }
```

The Output: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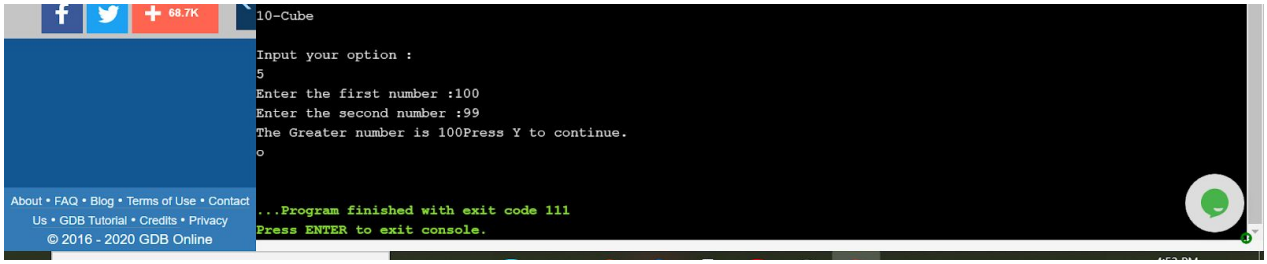
input
1-Addition.
2-Subtraction.
3-Multiplication.
4-Division.
5-Greater.
6-Smaller.
7-Equality.
8-Greater than or Equal.
9-Square.
10-Cube
Input your option :
3
Enter the first number :5
Enter the second number :8
The Multiplication of 5 and 8 is: 40
Press Y to continue.
y
1-Addition.
2-Subtraction.
3-Multiplication.
4-Division.
5-Greater.
6-Smaller.
7-Equality.
8-Greater than or Equal.
9-Square.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10-Cube
Input your option :
5
Enter the first number :100
Enter the second number :99
The Greater number is 100Press Y to continue.
o
...Program finished with exit code 111
Press ENTER to exit console.

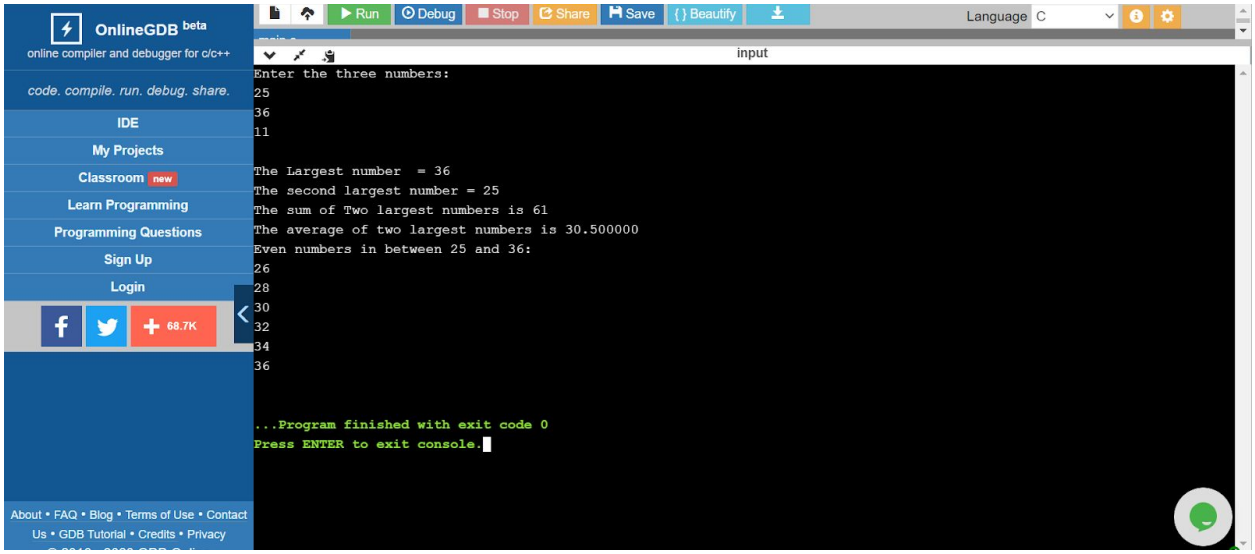
Program number 2

Write a C program to accept three numbers from the user. Find the greater two among the three and pass them as parameters to the user defined functions given below.
a. sumaver (…) which finds the sum and average of the two numbers. Print the sum and return the average.
b. printeven (…) which prints all the even numbers between the given two numbers

```
#include <stdio.h>
float sumaver(int a, int b)
  {
   printf("The sum of Two largest numbers is %d\n",a+b);
   return (float)(a+b)/2;
  }

int printeven(int k,int n)
 {
    printf("Even numbers in between %d and %d:\n",k,n);
    for(int i=k; i<=n; i++)
   {
      if(i%2 == 0)
      {
         printf("%d\n", i);
      }
   }

}
int main ()
{
   int n = 0, i = 0, largest1 = 0, largest2 = 0, temp = 0;
   int array[n];
   float avg;
   printf ("Enter the three numbers:\n");
   for (i = 0; i < 3; i++)
   {
      scanf ("%d", &array[i]);
   }

   printf ("\n");

   largest1 = array[0];
```

```
    largest2 = array[1];

    if (largest1 < largest2)
    {
        temp = largest1;
        largest1 = largest2;
        largest2 = temp;
    }

    for (int i = 2; i < 3; i++)
    {
        if (array[i] > largest1)
        {
            largest2 = largest1;
            largest1 = array[i];
        }
        else if (array[i] > largest2 && array[i] != largest1)
        {
            largest2 = array[i];
        }
    }

    printf ("The Largest number  = %d\n", largest1);
    printf ("The second largest number = %d\n", largest2);

   avg=sumaver(largest1,largest2);
   printf("The average of two largest numbers is %f\n",avg);

   printeven(largest2,largest1);
    return 0;
}
```

The Output :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Debug
Stop
Share
Save
{ } Beautify
Language C
input
Enter the three numbers:
25
36
11
The Largest number = 36
The second largest number = 25
The sum of Two largest numbers is 61
The average of two largest numbers is 30.500000
Even numbers in between 25 and 36:
26
28
30
32
34
36
...Program finished with exit code 0
Press ENTER to exit console.