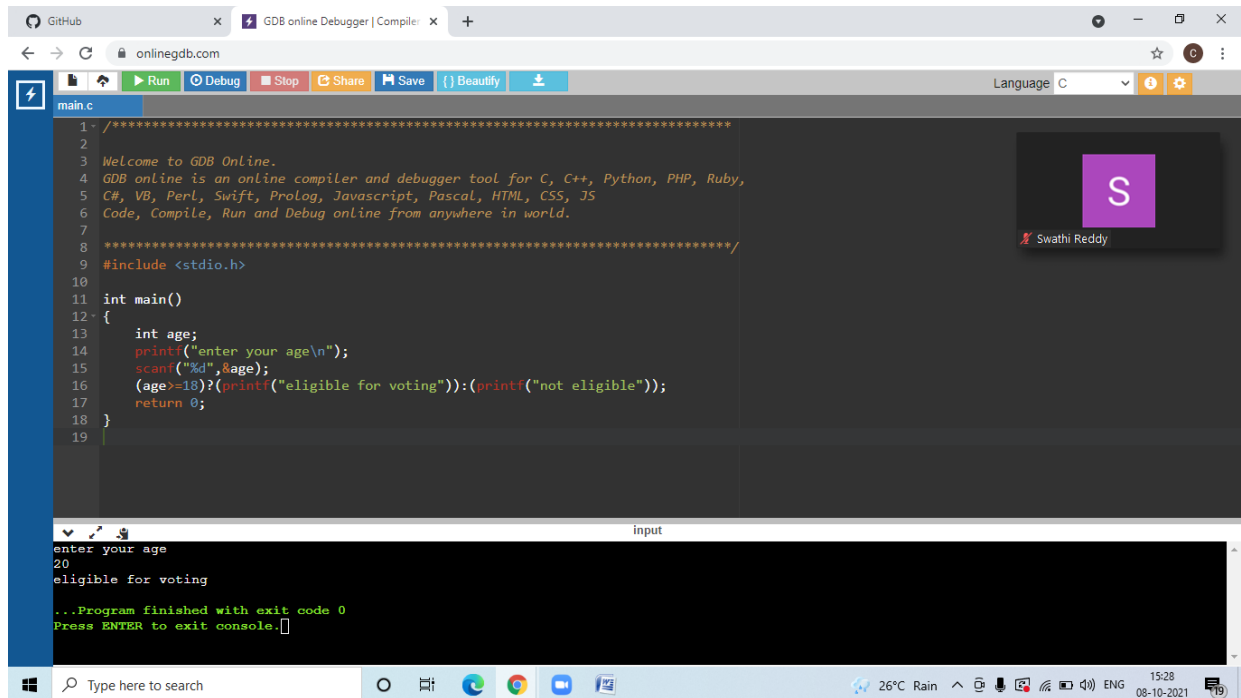


USN-1RN20CS035

NAME-CHARITH.N

JOY OF CODING DAY-2

1.



The screenshot shows the GDB online Debugger interface. The code editor displays a C program named 'main.c' with the following content:

```
1- /*****  
2  
3 Welcome to GDB Online.  
4 GDB online is an online compiler and debugger tool for C, C++, Python, PHP, Ruby,  
5 C#, VB, Perl, Swift, Prolog, Javascript, Pascal, HTML, CSS, JS  
6 Code, Compile, Run and Debug online from anywhere in world.  
7  
8 *****/  
9 #include <stdio.h>  
10  
11 int main()  
12 {  
13     int age;  
14     printf("enter your age\n");  
15     scanf("%d",&age);  
16     (age>=18)?(printf("eligible for voting")):(printf("not eligible"));  
17     return 0;  
18 }  
19
```

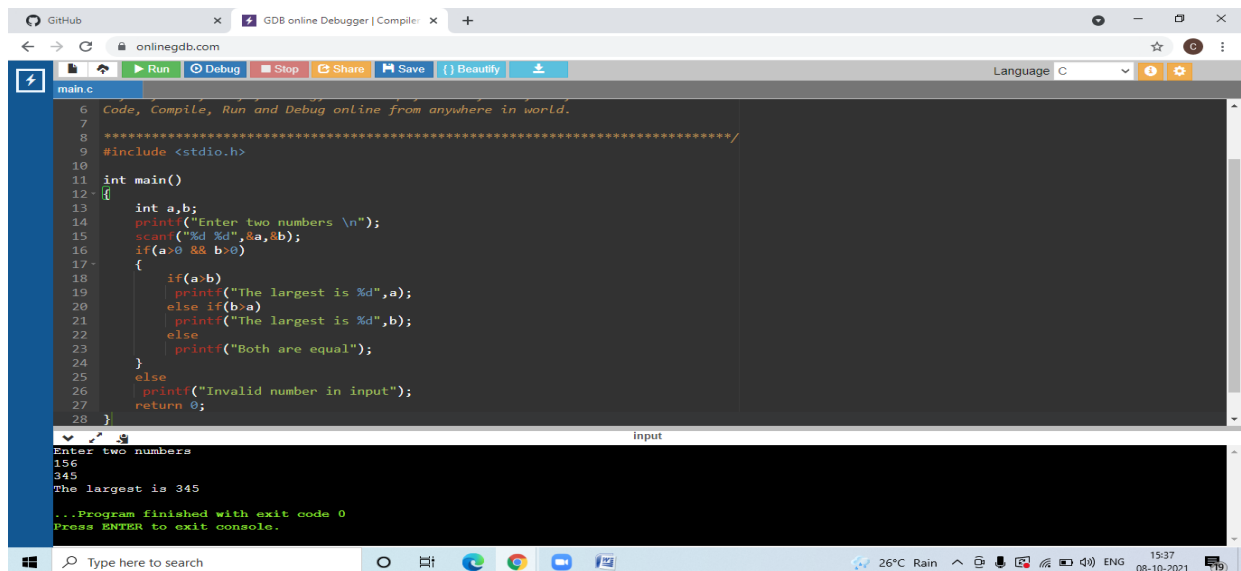
The console output shows the program execution:

```
enter your age  
20  
eligible for voting  
...Program finished with exit code 0  
Press ENTER to exit console.
```

The interface includes a toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to C. A user profile for Swathi Reddy is visible in the top right corner.

2.

Test Case 1 :



The screenshot shows the GDB online Debugger interface. The code editor displays a C program named 'main.c' with the following content:

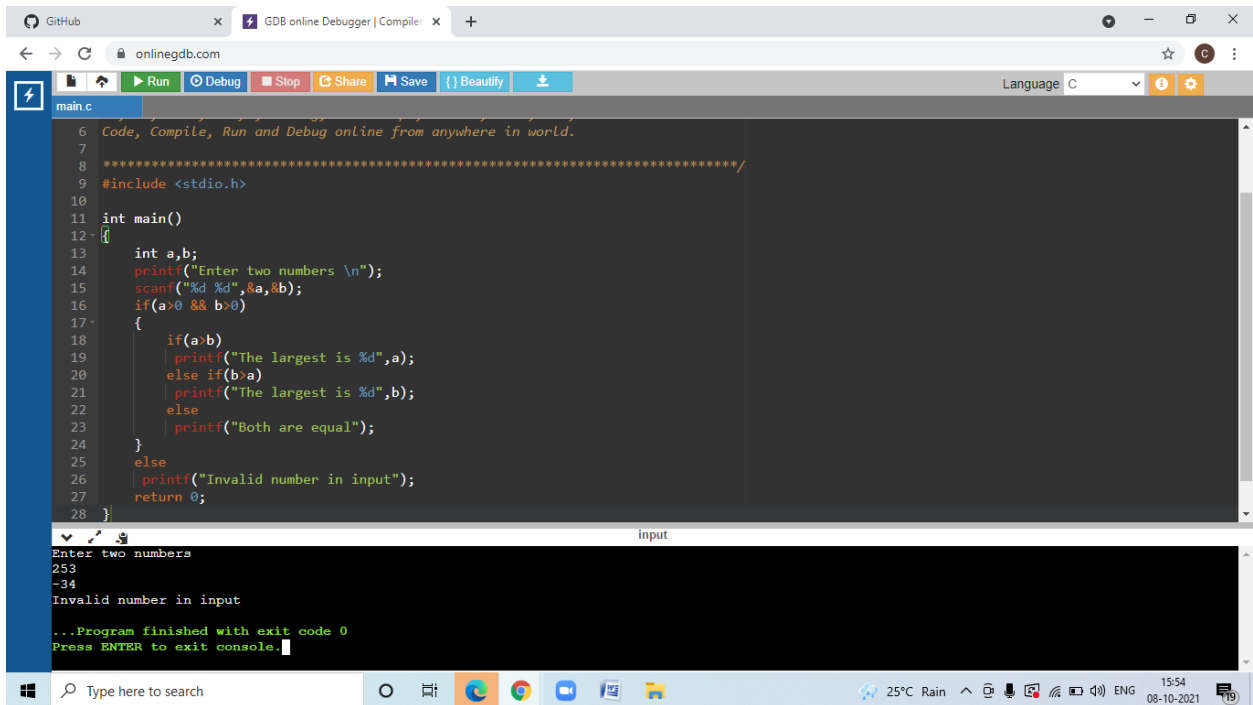
```
6 Code, Compile, Run and Debug online from anywhere in world.  
7  
8 *****/  
9 #include <stdio.h>  
10  
11 int main()  
12 {  
13     int a,b;  
14     printf("Enter two numbers \n");  
15     scanf("%d %d",&a,&b);  
16     if(a>0 && b>0)  
17     {  
18         if(a>b)  
19             printf("The largest is %d",a);  
20         else if(b>a)  
21             printf("The largest is %d",b);  
22         else  
23             printf("Both are equal");  
24     }  
25     else  
26         printf("Invalid number in input");  
27     return 0;  
28 }
```

The console output shows the program execution:

```
Enter two numbers  
156  
345  
The largest is 345  
...Program finished with exit code 0  
Press ENTER to exit console.
```

The interface includes a toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to C. A user profile for Swathi Reddy is visible in the top right corner.

## Test Case 2:



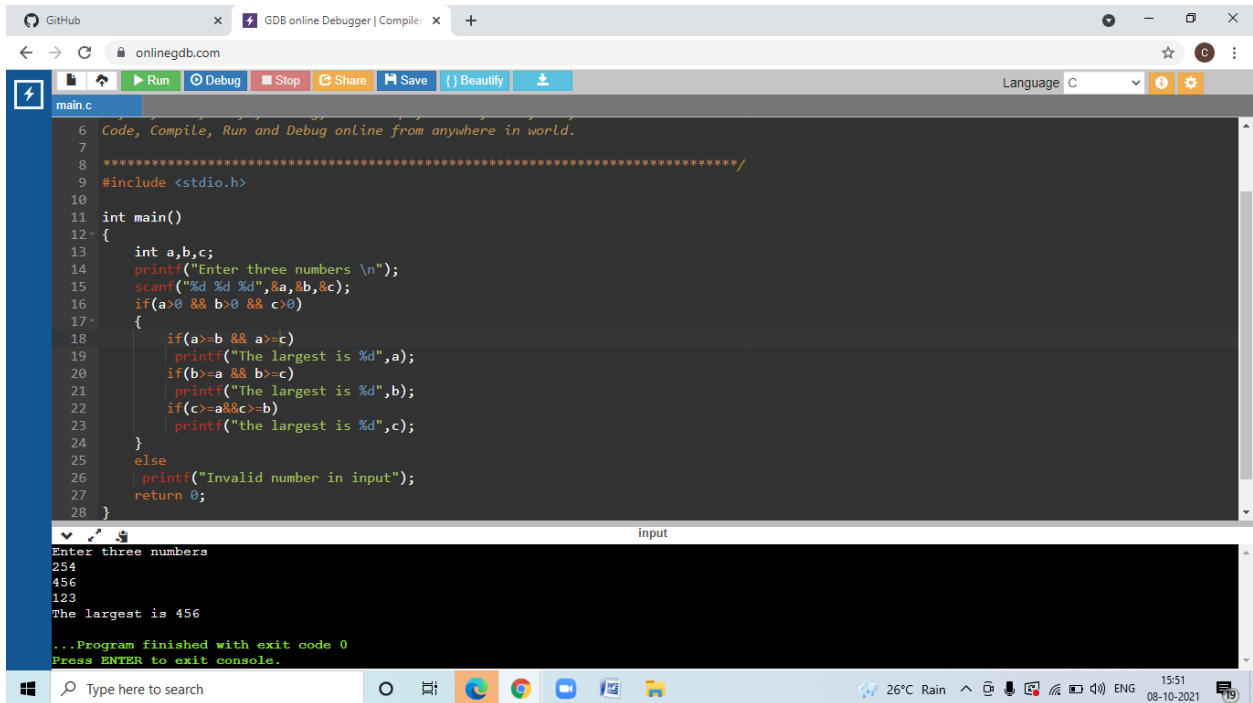
The screenshot shows the onlinegdb.com interface. The code in main.c is as follows:

```
6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****/
9 #include <stdio.h>
10
11 int main()
12 {
13     int a,b;
14     printf("Enter two numbers \n");
15     scanf("%d %d",&a,&b);
16     if(a>0 && b>0)
17     {
18         if(a>b)
19             printf("The largest is %d",a);
20         else if(b>a)
21             printf("The largest is %d",b);
22         else
23             printf("Both are equal");
24     }
25     else
26         printf("Invalid number in input");
27     return 0;
28 }
```

The input section shows the following interaction:

```
Enter two numbers
253
-34
Invalid number in input
...Program finished with exit code 0
Press ENTER to exit console.
```

## Test Case3:



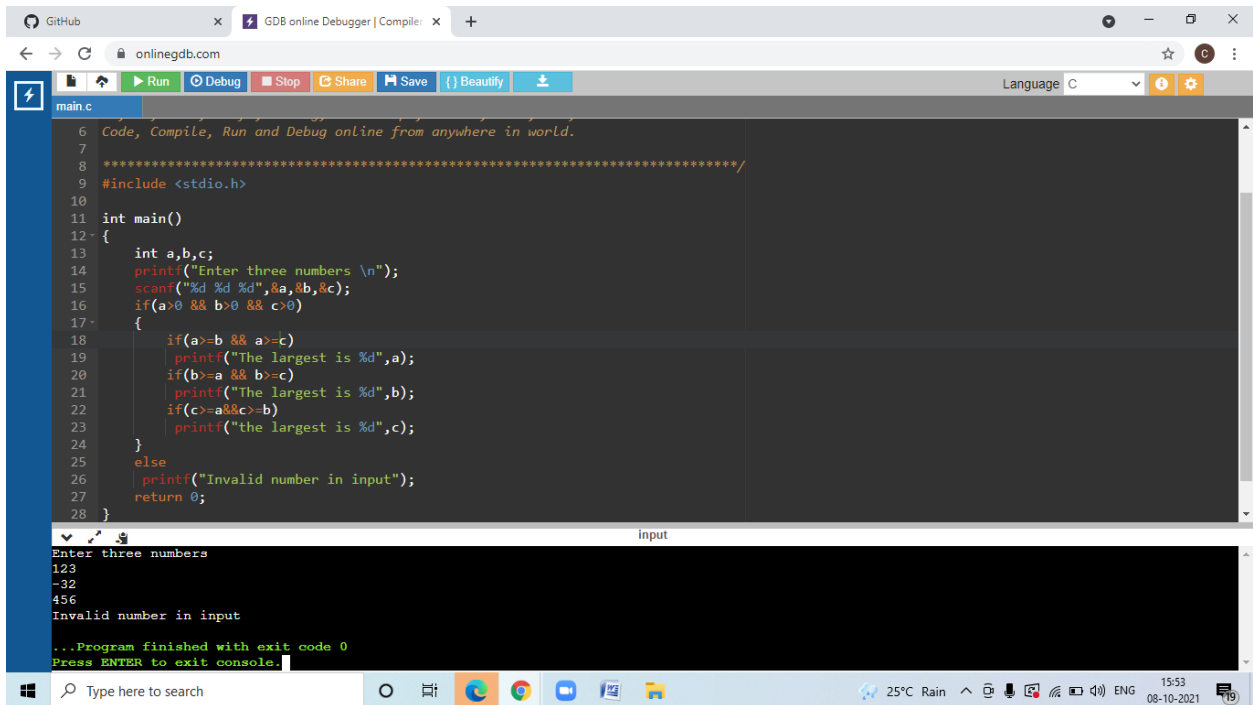
The screenshot shows the onlinegdb.com interface. The code in main.c is as follows:

```
6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****/
9 #include <stdio.h>
10
11 int main()
12 {
13     int a,b,c;
14     printf("Enter three numbers \n");
15     scanf("%d %d %d",&a,&b,&c);
16     if(a>0 && b>0 && c>0)
17     {
18         if(a>b && a>c)
19             printf("The largest is %d",a);
20         if(b>a && b>c)
21             printf("The largest is %d",b);
22         if(c>a && c>b)
23             printf("the largest is %d",c);
24     }
25     else
26         printf("Invalid number in input");
27     return 0;
28 }
```

The input section shows the following interaction:

```
Enter three numbers
254
456
123
The largest is 456
...Program finished with exit code 0
Press ENTER to exit console.
```

### Test case 5:

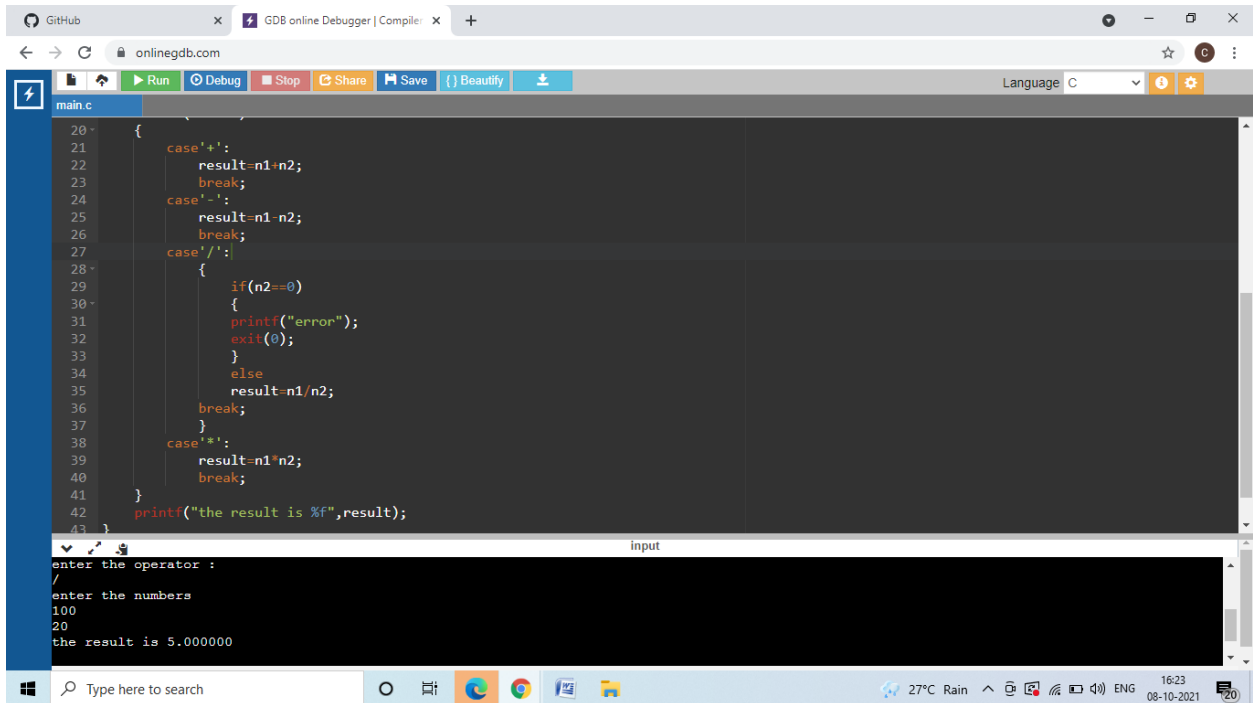


```
6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****
9 #include <stdio.h>
10
11 int main()
12 {
13     int a,b,c;
14     printf("Enter three numbers \n");
15     scanf("%d %d %d",&a,&b,&c);
16     if(a>0 && b>0 && c>0)
17     {
18         if(a>b && a>c)
19             printf("The largest is %d",a);
20         if(b>a && b>c)
21             printf("The largest is %d",b);
22         if(c>a && c>b)
23             printf("the largest is %d",c);
24     }
25     else
26         printf("Invalid number in input");
27     return 0;
28 }
```

Input

Enter three numbers  
123  
-32  
456  
Invalid number in input  
...Program finished with exit code 0  
Press ENTER to exit console.

3.

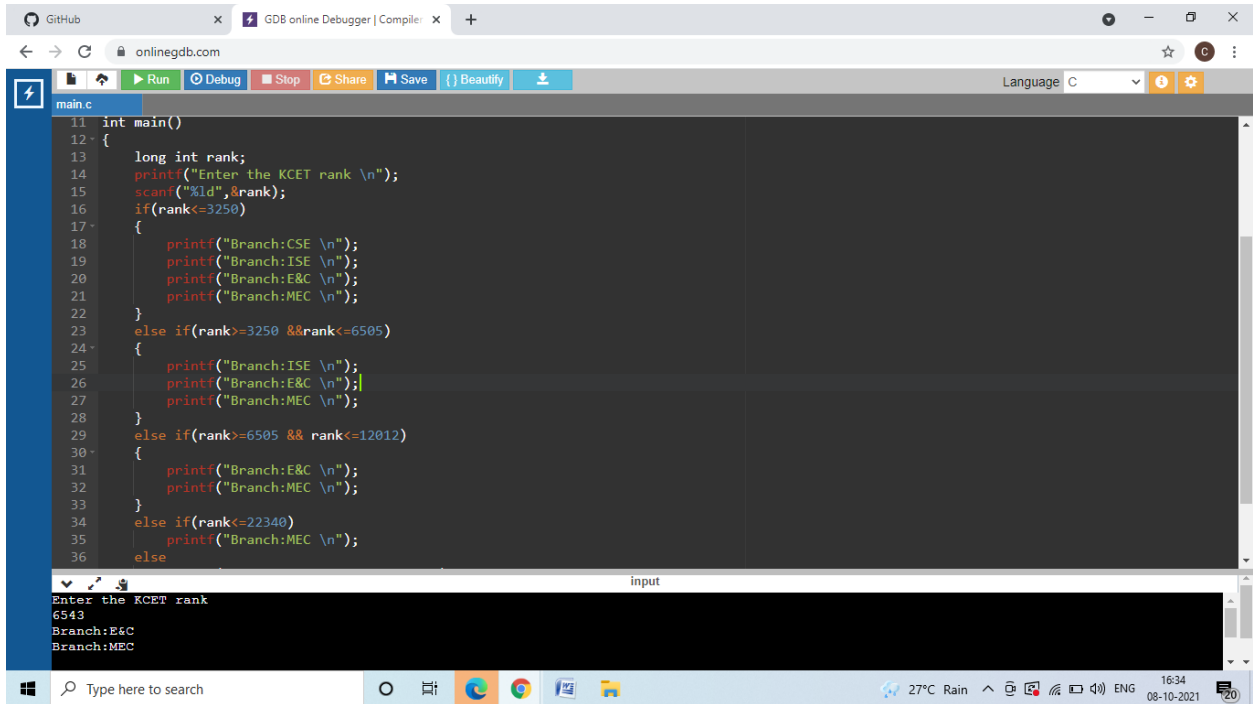


```
20 {
21     case '+':
22         result=n1+n2;
23         break;
24     case '-':
25         result=n1-n2;
26         break;
27     case '/':
28     {
29         if(n2==0)
30         {
31             printf("error");
32             exit(0);
33         }
34         else
35             result=n1/n2;
36         break;
37     }
38     case '*':
39         result=n1*n2;
40         break;
41 }
42 printf("the result is %f",result);
43 }
```

Input

enter the operator :  
/  
enter the numbers  
100  
20  
the result is 5.000000

4.



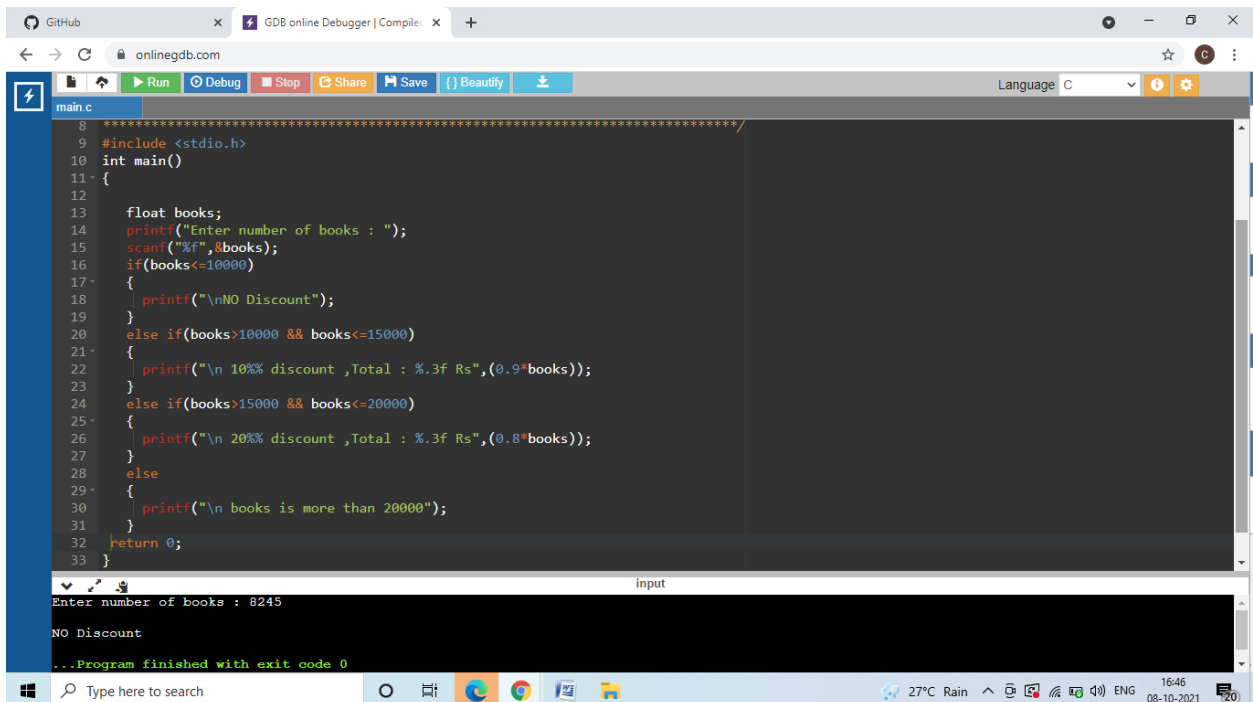
The screenshot shows the onlinegdb.com interface with a C program for determining a branch based on KCET rank. The code is as follows:

```
11 int main()
12 {
13     long int rank;
14     printf("Enter the KCET rank \n");
15     scanf("%ld",&rank);
16     if(rank<=3250)
17     {
18         printf("Branch:CSE \n");
19         printf("Branch:ISE \n");
20         printf("Branch:E&C \n");
21         printf("Branch:MEC \n");
22     }
23     else if(rank>=3250 && rank<=6505)
24     {
25         printf("Branch:ISE \n");
26         printf("Branch:E&C \n");
27         printf("Branch:MEC \n");
28     }
29     else if(rank>=6505 && rank<=12012)
30     {
31         printf("Branch:E&C \n");
32         printf("Branch:MEC \n");
33     }
34     else if(rank<=22340)
35         printf("Branch:MEC \n");
36     else
```

The input field shows "Enter the KCET rank" followed by the value "6543". The output field shows "Branch:E&C" and "Branch:MEC".

5.

Test case 2:



The screenshot shows the onlinegdb.com interface with a C program for determining a discount based on the number of books. The code is as follows:

```
8 *****
9 #include <stdio.h>
10 int main()
11 {
12     float books;
13     printf("Enter number of books : ");
14     scanf("%f",&books);
15     if(books<=10000)
16     {
17         printf("\nNO Discount");
18     }
19     else if(books>10000 && books<=15000)
20     {
21         printf("\n 10%% discount ,Total : %.3f Rs", (0.9*books));
22     }
23     else if(books>15000 && books<=20000)
24     {
25         printf("\n 20%% discount ,Total : %.3f Rs", (0.8*books));
26     }
27     else
28     {
29         printf("\n books is more than 20000");
30     }
31 }
32 return 0;
33 }
```

The input field shows "Enter number of books : 8245". The output field shows "NO Discount".

...Program finished with exit code 0

## Test case 2:

```
8 *****
9 #include <stdio.h>
10 int main()
11 {
12
13     float books;
14     printf("Enter number of books : ");
15     scanf("%f",&books);
16     if(books<=10000)
17     {
18         printf("\nNO Discount");
19     }
20     else if(books>10000 && books<=15000)
21     {
22         printf("\n 10%% discount ,Total : %.3f Rs",(0.9*books));
23     }
24     else if(books>15000 && books<=20000)
25     {
26         printf("\n 20%% discount ,Total : %.3f Rs",(0.8*books));
27     }
28     else
29     {
30         printf("\n books is more than 20000");
31     }
32     return 0;
33 }
```

input

Enter number of books : 12450

10% discount ,Total : 11205.000 Rs

...Program finished with exit code 0