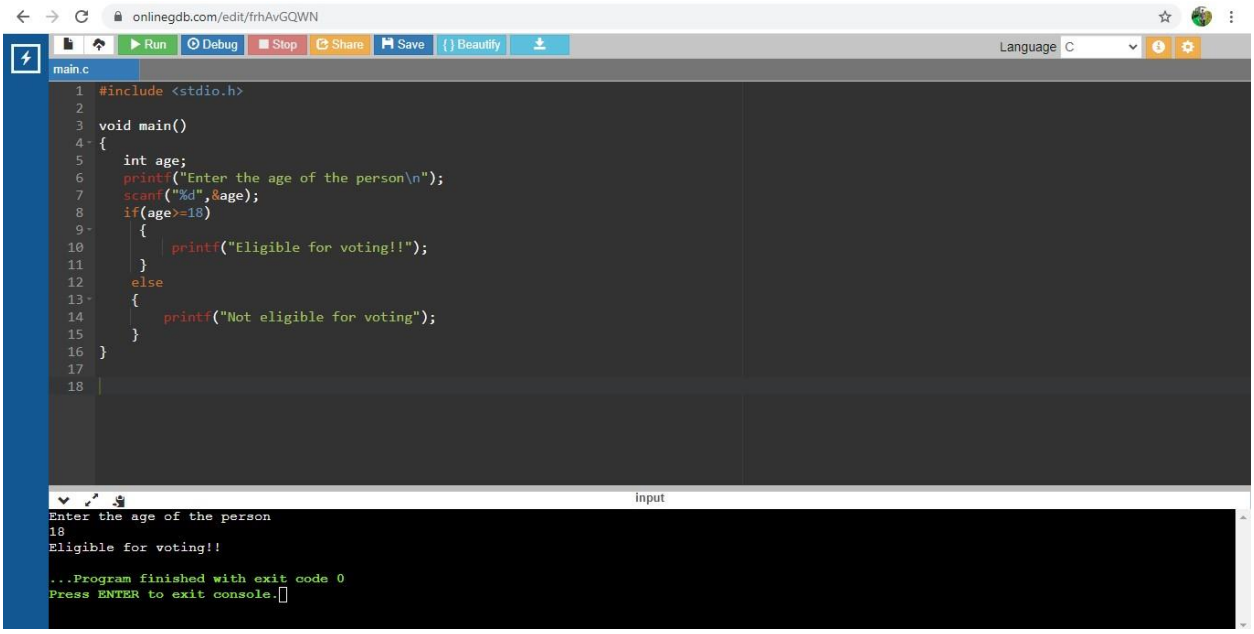
In India, the eligibility for voting is 18 years. Write a program that takes age as input and generates the decision whether one is eligible for voting or not. Display the appropriate message. Provide alternate solution using ternary operator.

```
#include <stdio.h>


void main()
{
  int age;
  printf("Enter the age of the person\n");
  scanf("%d",&age);
  if(age>=18)
   {
      printf("Eligible for voting!!");
   }
  else
  {
     printf("Not eligible for voting");
  }
}
```

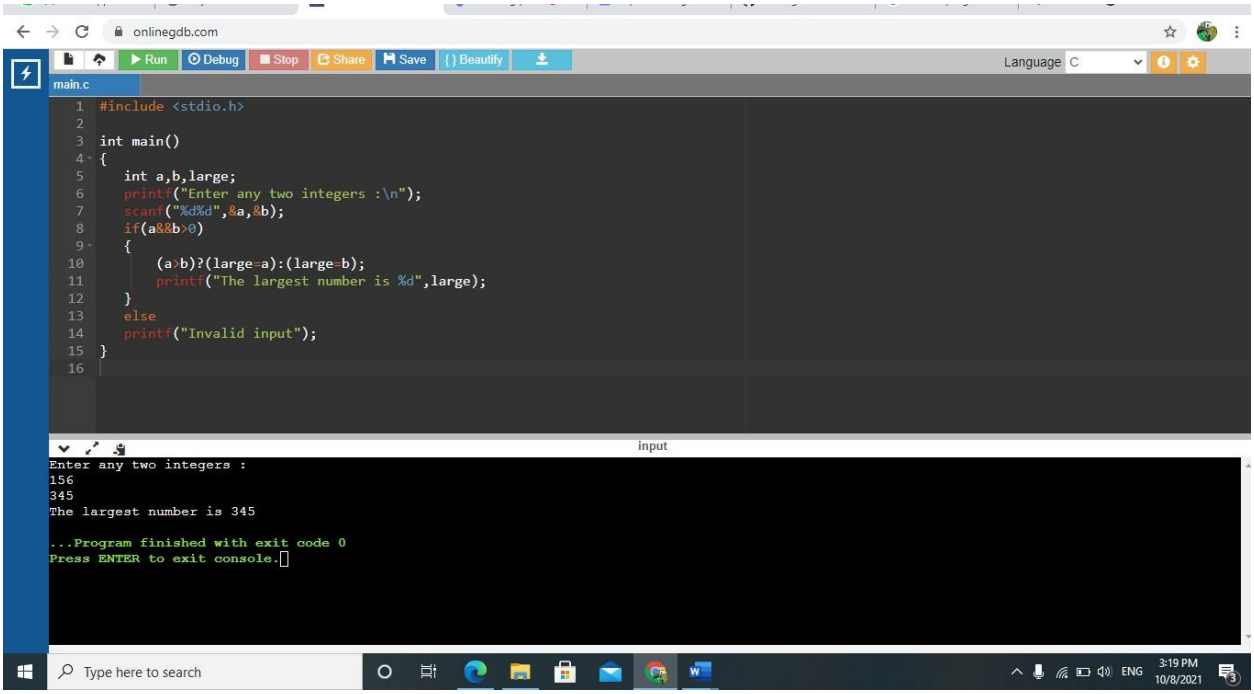
Output:

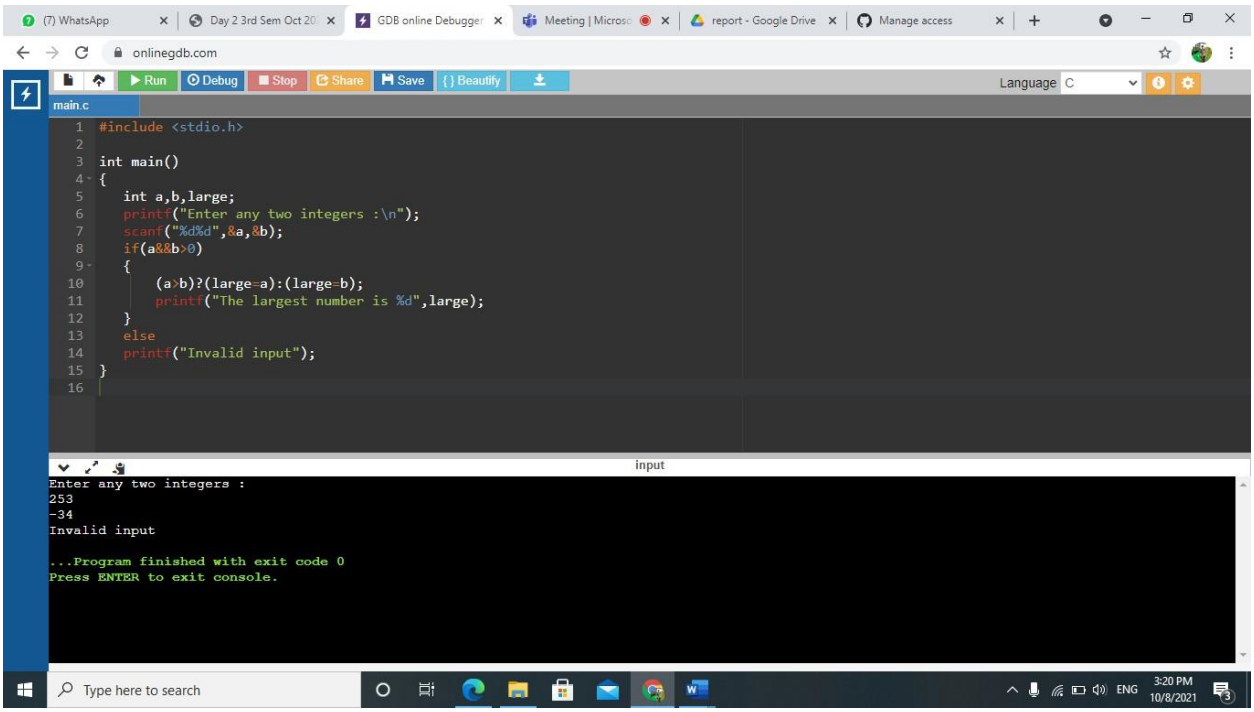


Write a program that accepts 2 integers as input and displays the largest integer. Upgrade the program that determines the largest of three numbers. Make sure that if any one of the numbers is negative then the program should abort without finding the largest

```
#include <stdio.h>


int main()
{
  int a,b,large;
  printf("Enter any two integers :\n");
  scanf("%d%d",&a,&b);
  if(a&&b>0)
  {
     (a>b)?(large=a):(large=b);
     printf("The largest number is %d",large);
  }
  else
  printf("Invalid input");
}
```

Output:

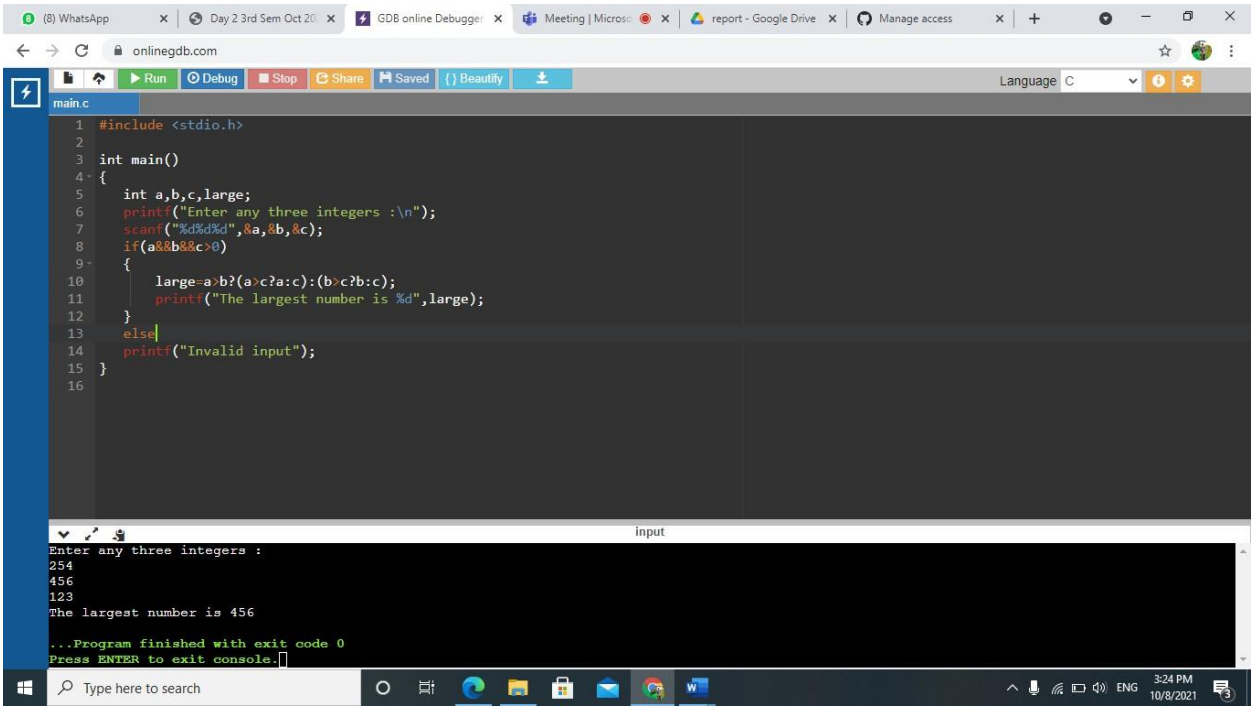


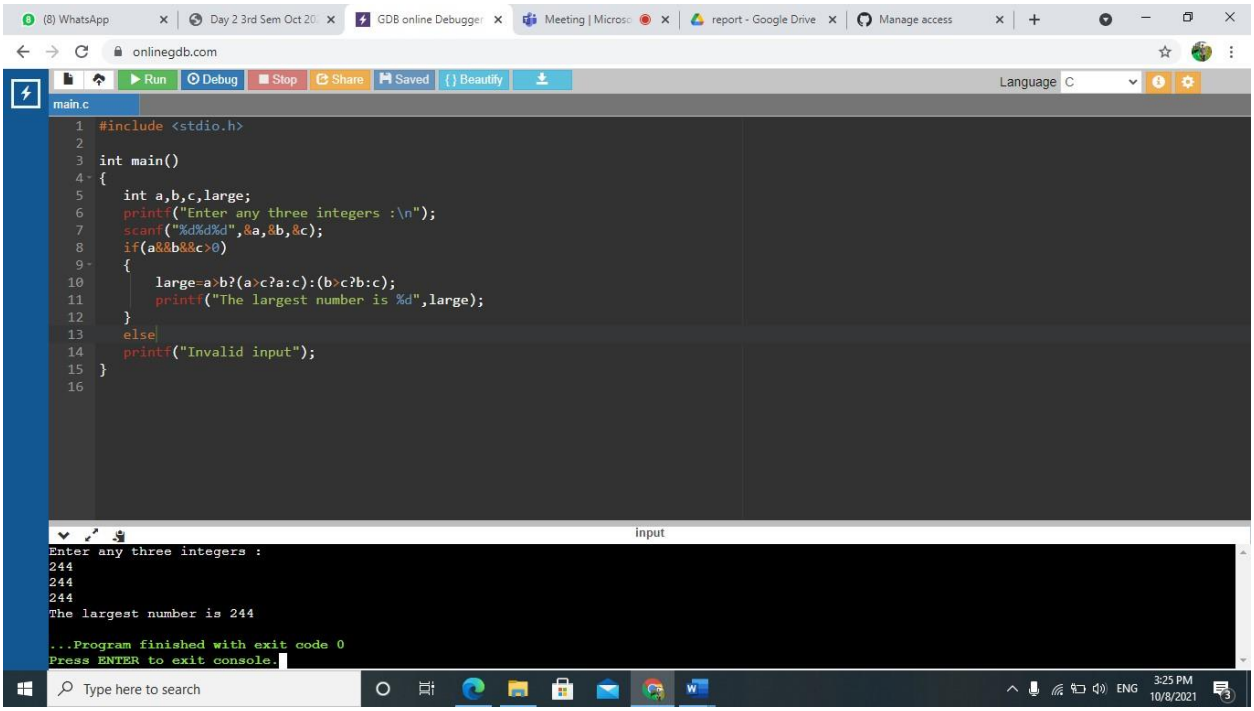


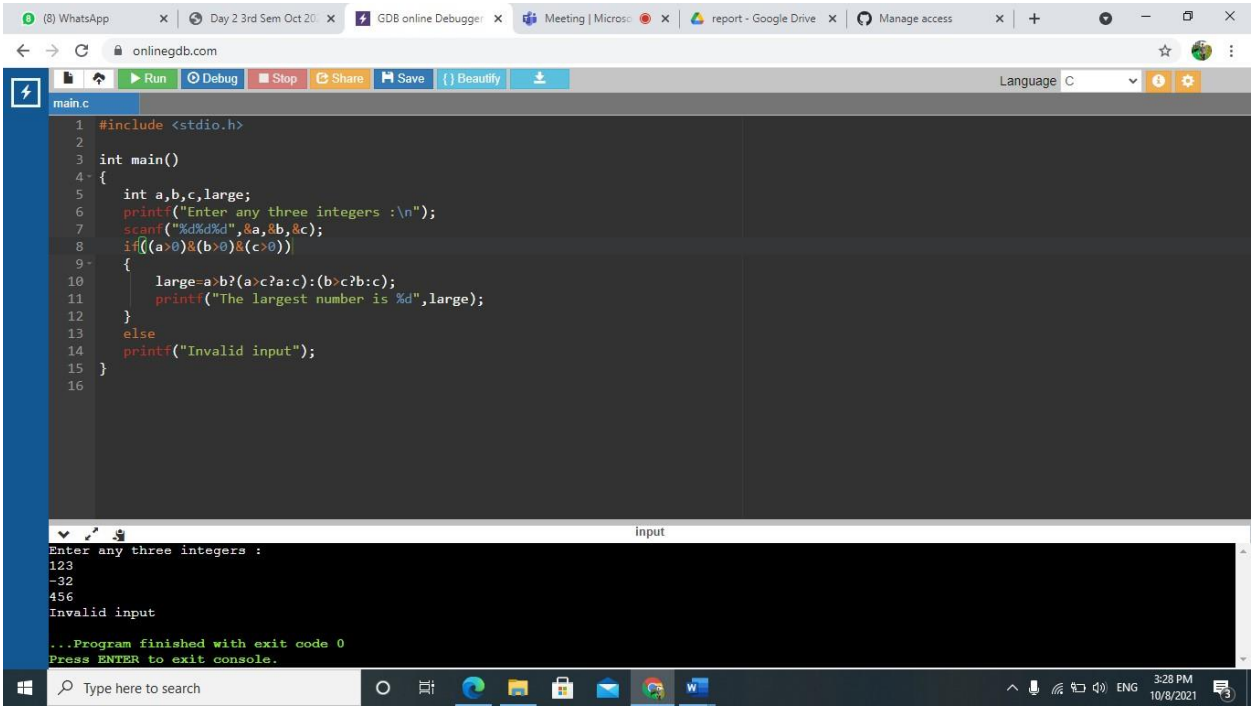

```
#include <stdio.h>

int main()
{
```

```
  int a,b,c,large;
  printf("Enter any three integers :\n");
  scanf("%d%d%d",&a,&b,&c);
  if((a>0)&(b>0)&(c>0))
  {
     large=a>b?(a>c?a:c):(b>c?b:c);
     printf("The largest number is %d",large);
  }
  else
  printf("Invalid input");
}
```

Output:







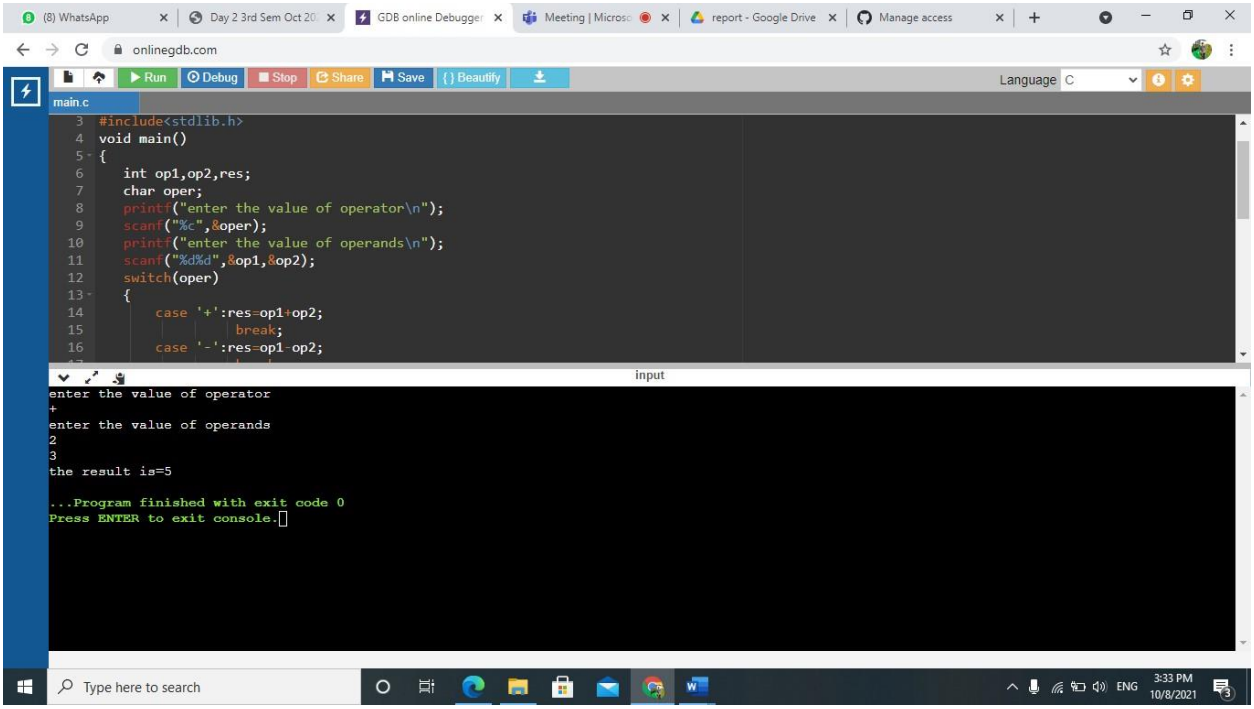
Write a program that accepts two integers and simulate a simple calculator. if one of the operands is "zero", then print appropriate message while performing division. The operators to be handled are +, -, *, /, %

#include <stdio.h>

```
#include<stdlib.h>
void main()
{
  int op1,op2,res;
  char oper;
  printf("enter the value of operator\n");
  scanf("%c",&oper);
  printf("enter the value of operands\n");
  scanf("%d%d",&op1,&op2);
  switch(oper)
  {
     case '+':res=op1+op2;
              break;
     case '-':res=op1-op2;
              break;
     case '*':res=op1*op2;
              break;
     case '/':if(op2==0)
     {
        printf("divide by zero error");
        exit(0);
     }
     else
     {
        res=op1/op2;
     }
     break;
     case '%':res=op1%op2;
     break;
```

```
    default:printf("not valid operator\n");
    exit(0);
  }
    printf("the result is=%d",res);


}
```

Output:

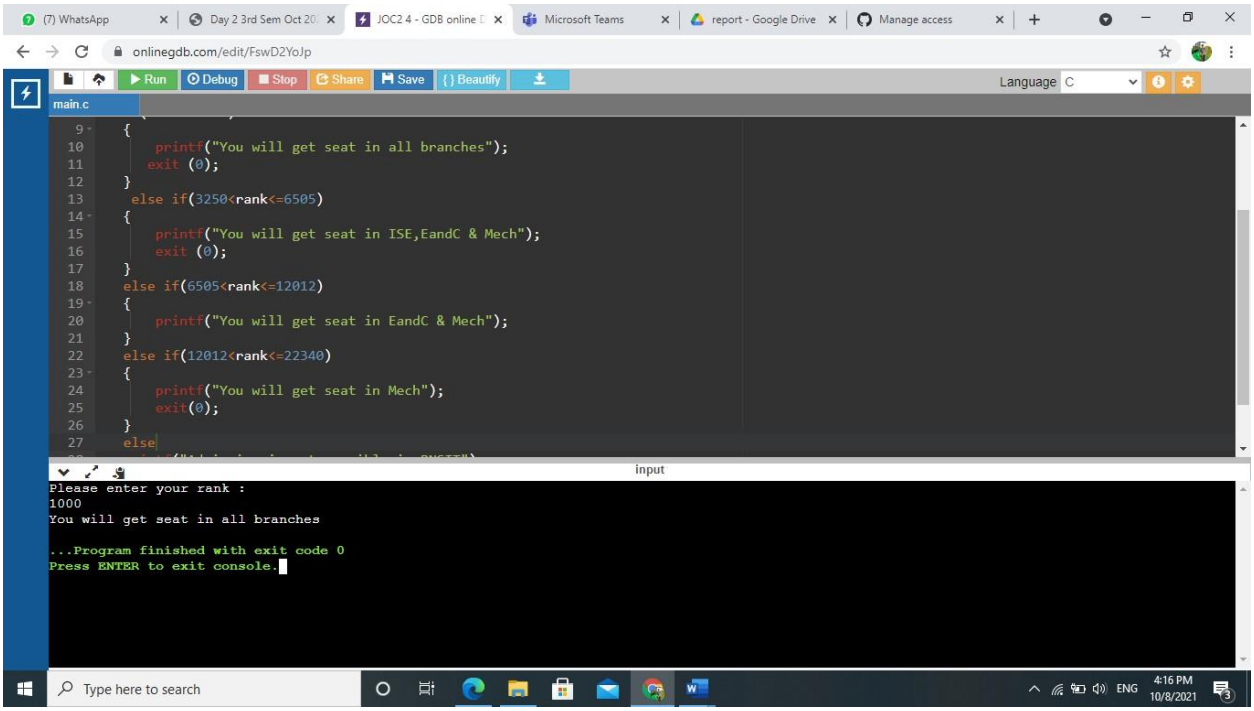


Following is the CET rank cut-off at RNSIT CSE 3250 ISE 6505 EandC 12012 MEC 22340 Help your friend Mr. Engineer with a rank to know the possibility of getting into a particular branch. For example, if the rank is 7205 then he will get EandC and MEC 1265 then he will get in all branches 25000 then admission not possible at RNSIT

```
#include <stdio.h>

#include <stdlib.h>

int main()

{

  int rank;

  printf("Please enter your rank :\n");
```

```
  scanf("%d",&rank);
  if(rank<=3250)
  {
     printf("You will get seat in all branches");
    exit (0);
  }
   else if(3250<rank<=6505)
  {
     printf("You will get seat in ISE,EandC & Mech");
     exit (0);
  }
  else if(6505<rank<=12012)
  {
     printf("You will get seat in EandC & Mech");
  }
  else if(12012<rank<=22340)
  {
     printf("You will get seat in Mech");
     exit(0);
  }
  else
  printf("Admission is not possible in RNSIT");
}
```

Output:

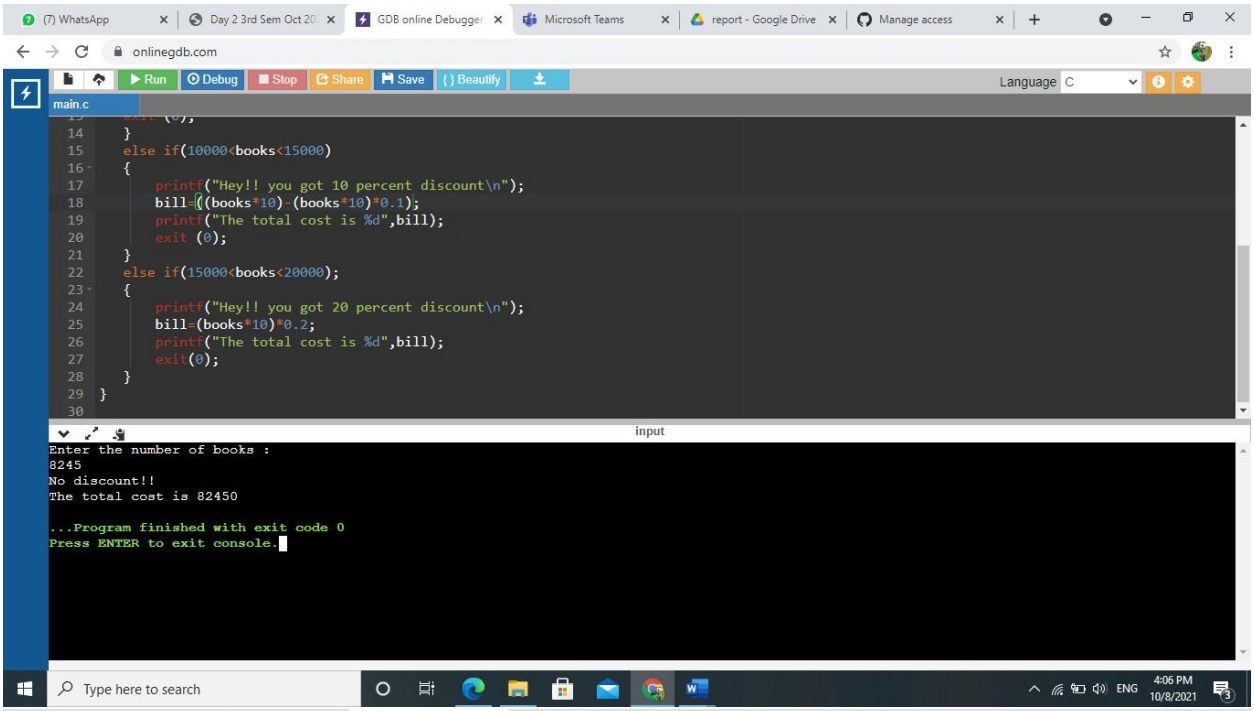


Now that the colleges are offline, no more online exams!!!! RNSIT to procure blue books from "Paper Mills". The sales executive quotes ₹ 10 per book. However, for bulk deal he offers the discounts. The deal is as given below if number of books <10000 no discount if number of books >10000 and <15000 then 10% discount if number of books >15000 and <20000 20% discount Help the accountant to generate the bill based on the order. Explore all test cases and validate your answer

```
#include <stdio.h>

#include <stdlib.h>

int main()

{

  int books,bill;

  printf("Enter the number of books :\n");

  scanf("%d",&books);

  if(books<10000)

  {

  printf("No discount!!\n");

  bill=books*10;

  printf("The total cost is %d",bill);
```

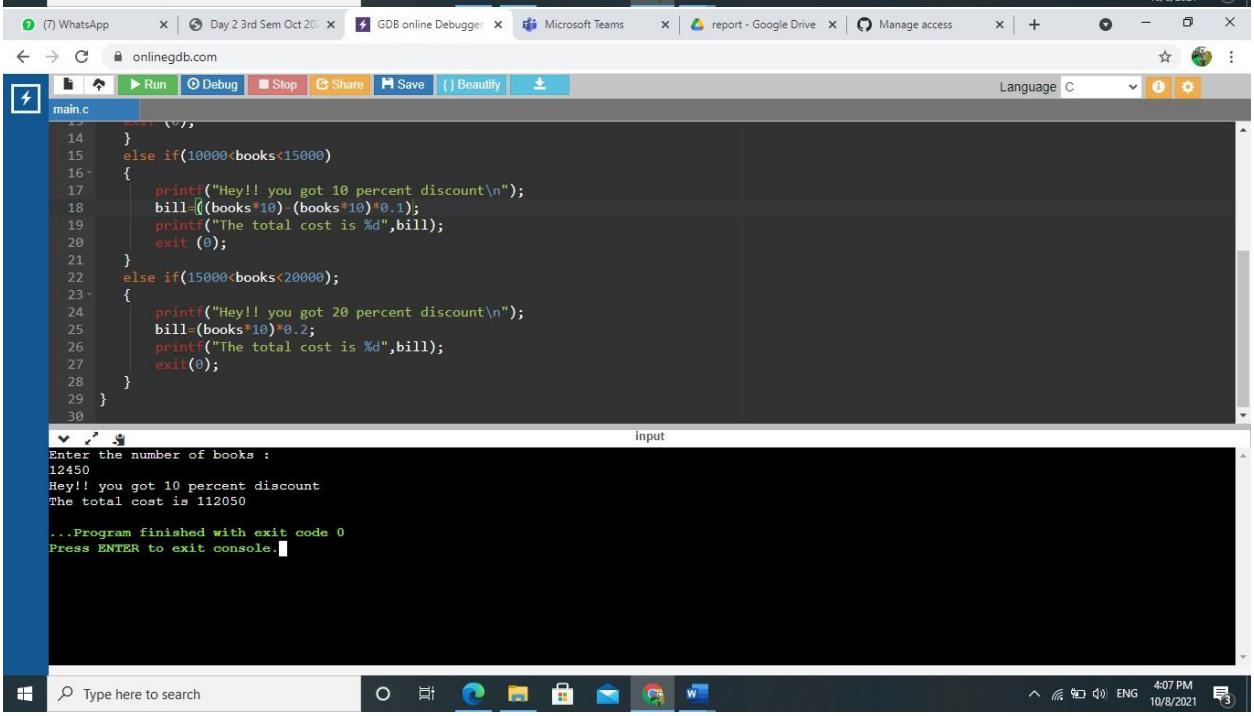
```
  exit (0);
  }
  else if(10000<books<15000)
  {
     printf("Hey!! you got 10 percent discount\n");
     bill=((books*10)-(books*10)*0.1);
     printf("The total cost is %d",bill);
     exit (0);
  }
  else if(15000<books<20000);
  {
     printf("Hey!! you got 20 percent discount\n");
     bill=(books*10)*0.2;
     printf("The total cost is %d",bill);
     exit(0);
  }
}
```

Output:



```
    }
    else if(10000<books<15000)
    {
        printf("Hey!! you got 10 percent discount\n");
        bill=((books*10)-(books*10)*0.1);
        printf("The total cost is %d",bill);
        exit (0);
    }
    else if(15000<books<20000);
    {
        printf("Hey!! you got 20 percent discount\n");
        bill=(books*10)*0.2;
        printf("The total cost is %d",bill);
        exit(0);
    }
}
```

```
Enter the number of books :
8245
No discount!!
The total cost is 82450

...Program finished with exit code 0
Press ENTER to exit console.
```



```
    }
    else if(10000<books<15000)
    {
        printf("Hey!! you got 10 percent discount\n");
        bill=((books*10)-(books*10)*0.1);
        printf("The total cost is %d",bill);
        exit (0);
    }
    else if(15000<books<20000);
    {
        printf("Hey!! you got 20 percent discount\n");
        bill=(books*10)*0.2;
        printf("The total cost is %d",bill);
        exit(0);
    }
}
```

```
Enter the number of books :
12450
Hey!! you got 10 percent discount
The total cost is 112050

...Program finished with exit code 0
Press ENTER to exit console.
```