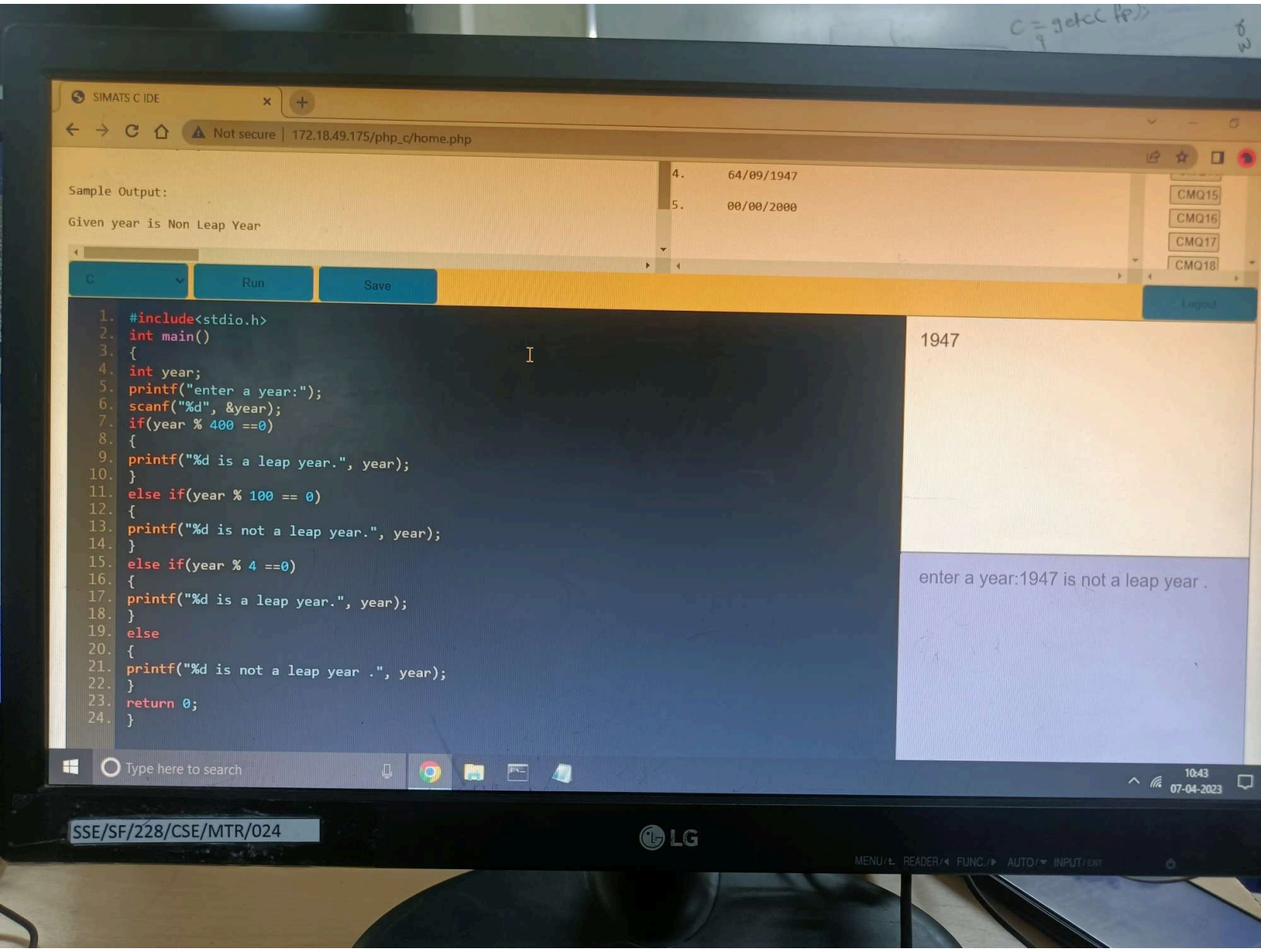
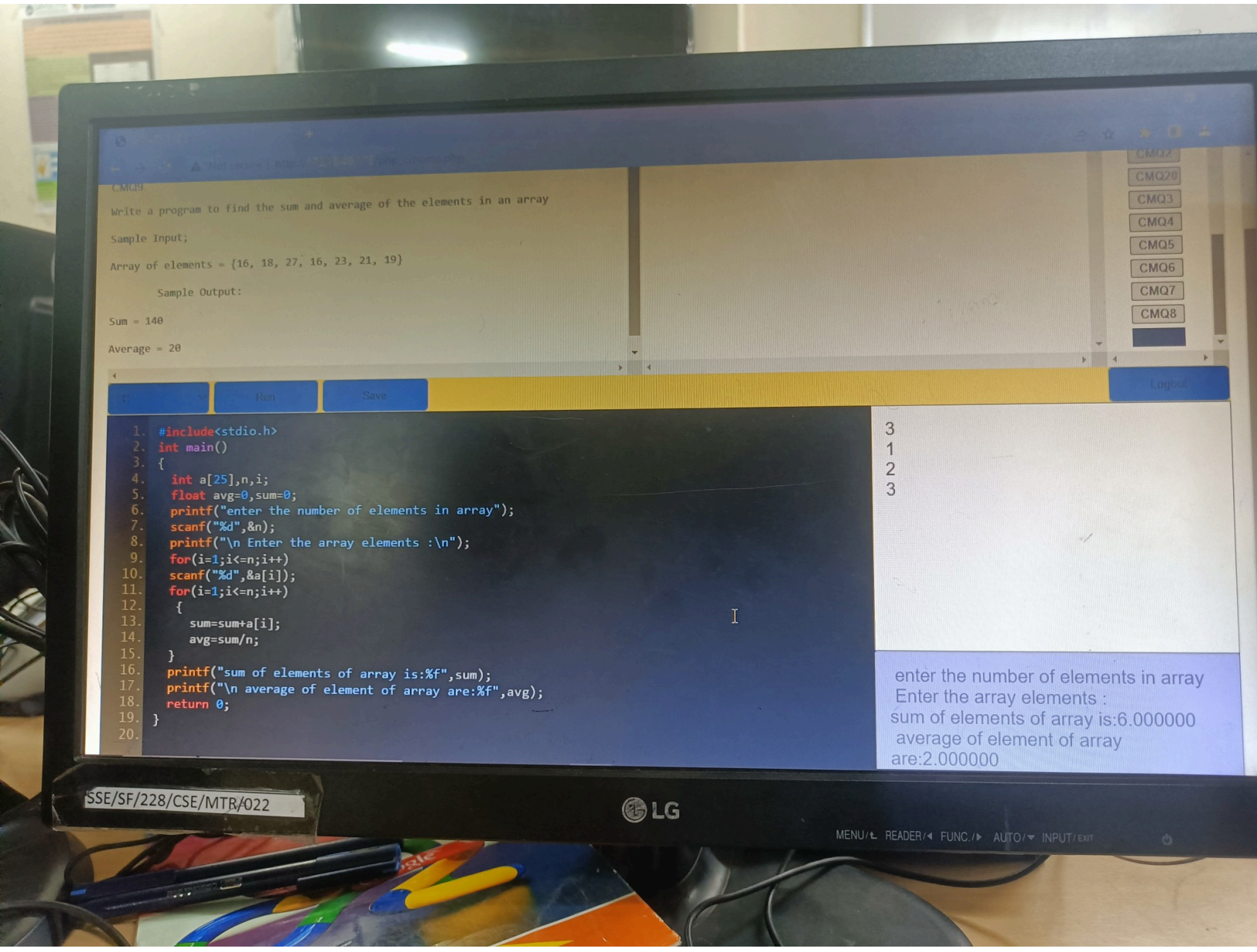
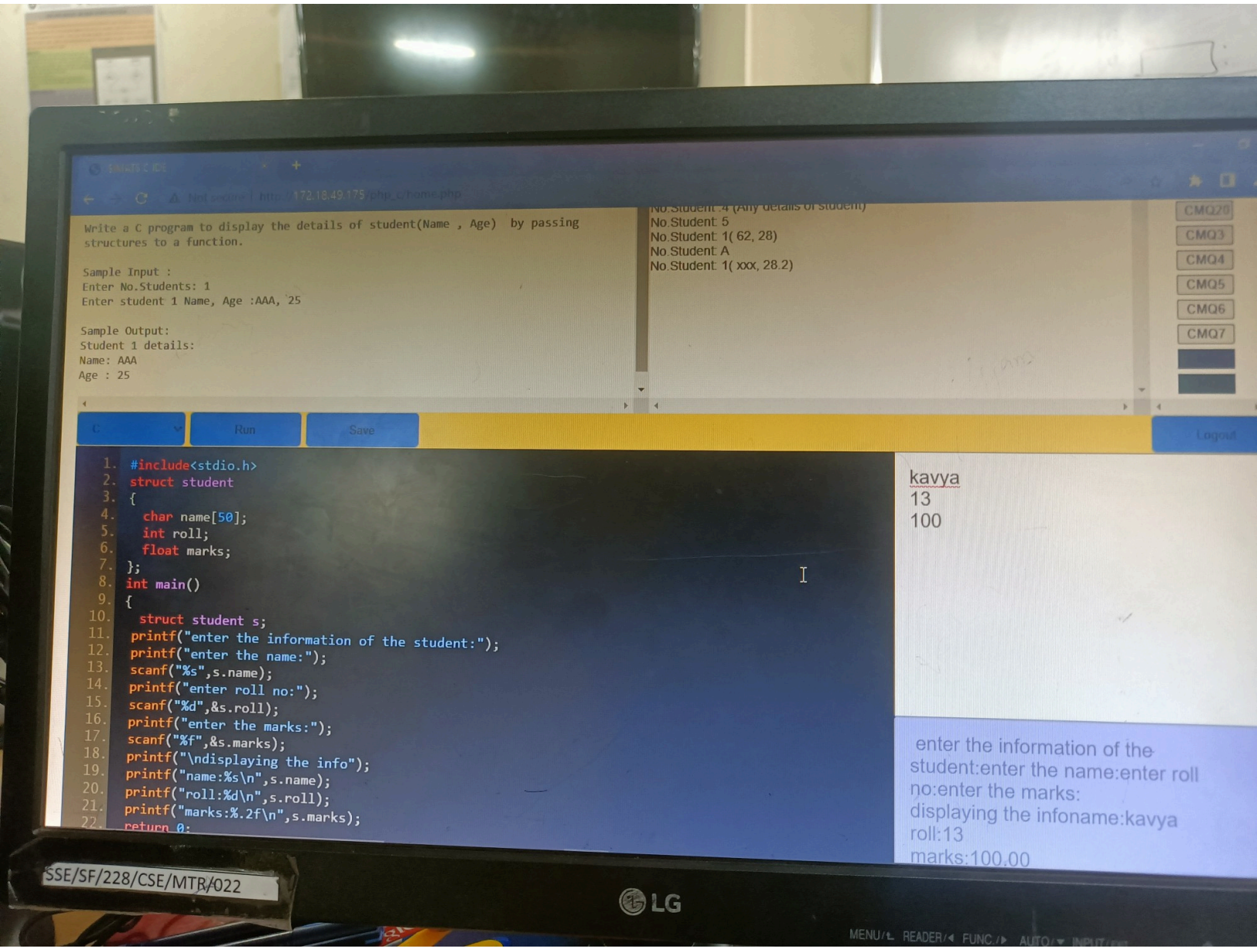
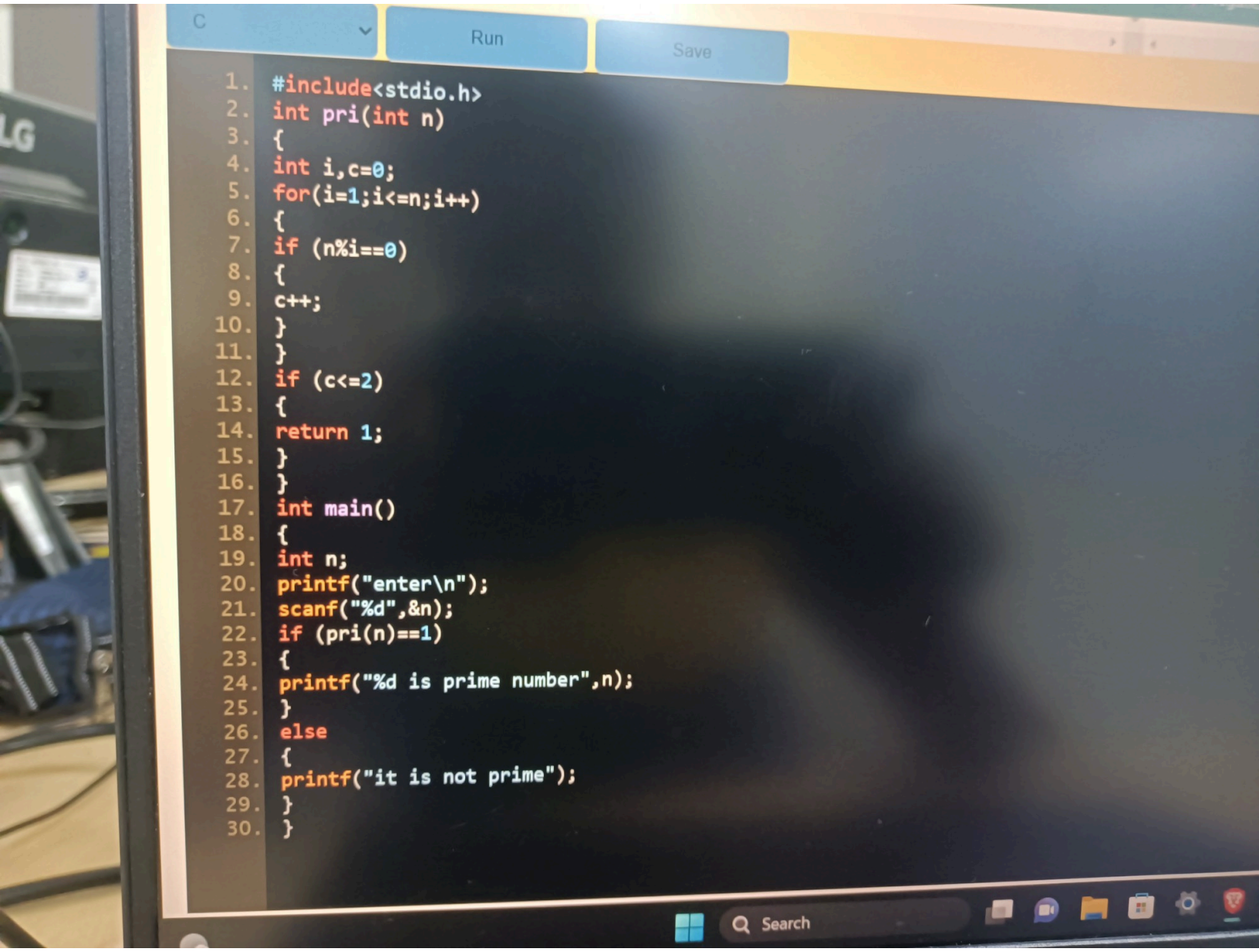
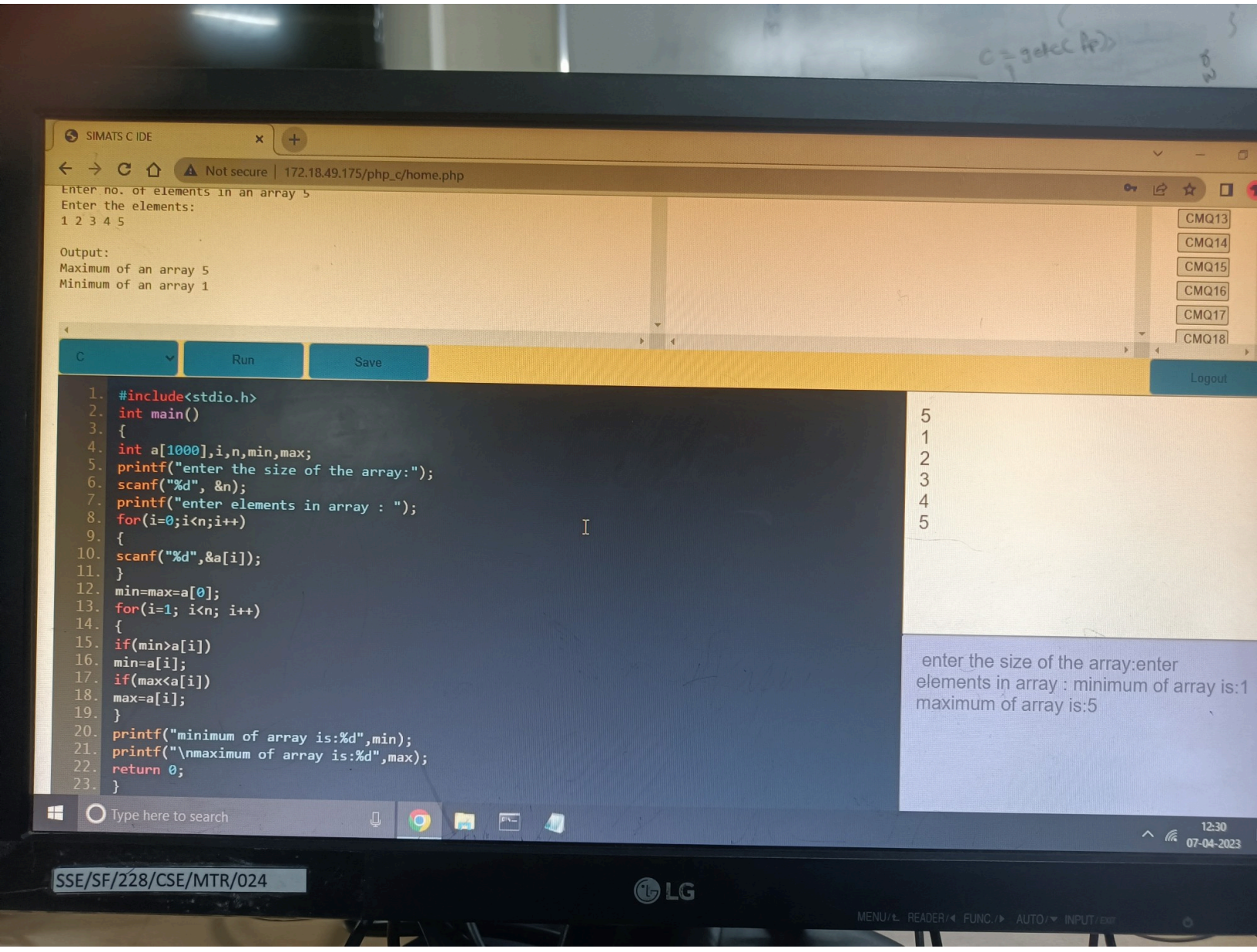

SIMATS C IDE
Not secure | 172.18.49.175/php_c/home.php
Sample Output:
Given year is Non Leap Year
4. 64/09/1947
5. 00/00/2000
CMQ15
CMQ16
CMQ17
CMQ18
Run
Save
Logout
#include<stdio.h>
int main()
{
int year;
printf("enter a year:");
scanf("%d", &year);
if(year % 400 ==0)
{
printf("%d is a leap year.", year);
}
else if(year % 100 == 0)
{
printf("%d is not a leap year.", year);
}
else if(year % 4 ==0)
{
printf("%d is a leap year.", year);
}
else
{
printf("%d is not a leap year .", year);
}
return 0;
}
1947
enter a year:1947 is not a leap year .
Type here to search
10:43
07-04-2023
SSE/SF/228/CSE/MTR/024
LG

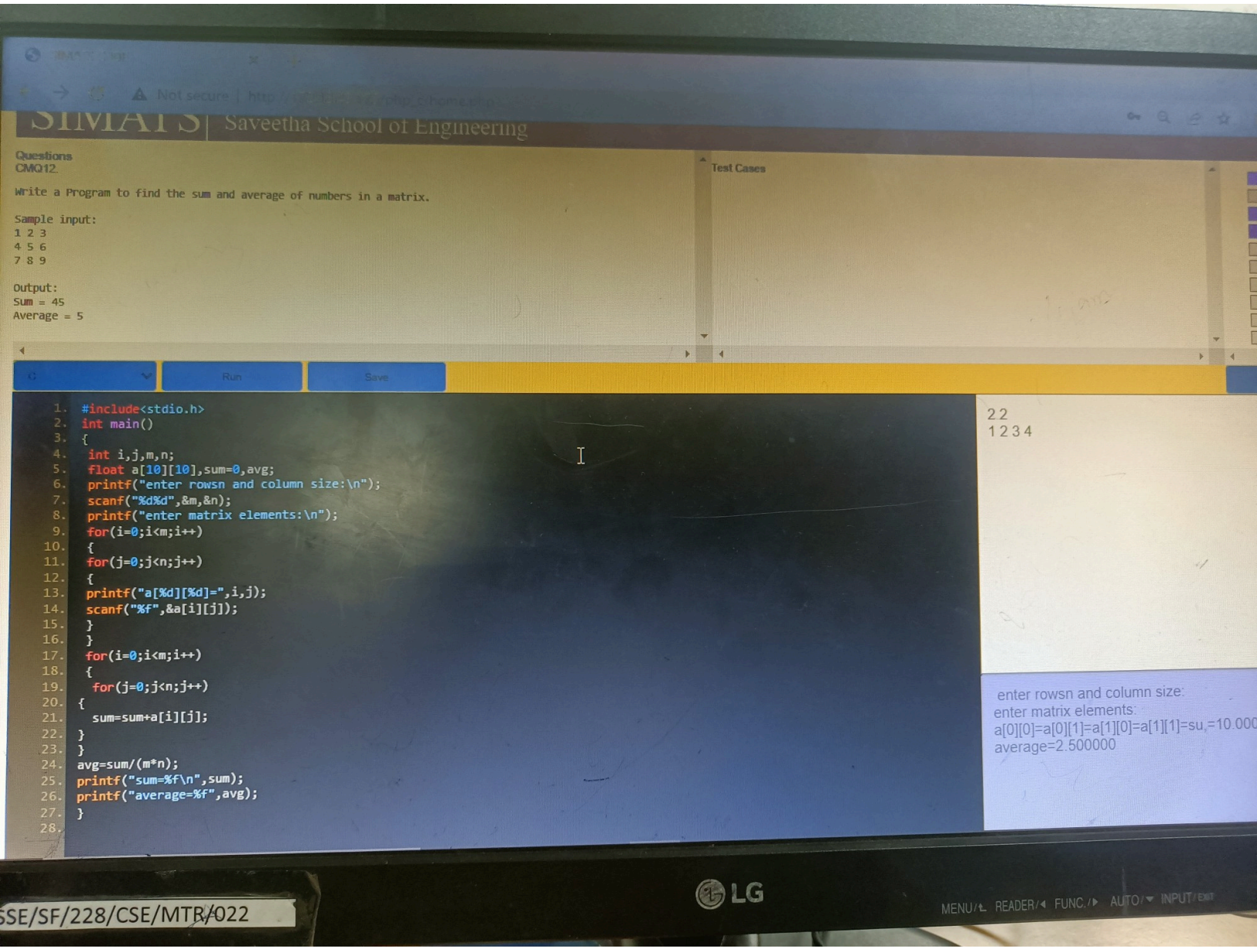

CMQ9
Write a program to find the sum and average of the elements in an array
Sample Input;
Array of elements = {16, 18, 27, 16, 23, 21, 19}
Sample Output:
Sum = 140
Average = 20
CMQ2
CMQ20
CMQ3
CMQ4
CMQ5
CMQ6
CMQ7
CMQ8
Run
Save
Logout
#include<stdio.h>
int main()
{
int a[25],n,i;
float avg=0,sum=0;
printf("enter the number of elements in array");
scanf("%d",&n);
printf("\n Enter the array elements :\n");
for(i=1;i<=n;i++)
scanf("%d",&a[i]);
for(i=1;i<=n;i++)
{
sum=sum+a[i];
avg=sum/n;
}
printf("sum of elements of array is:%f",sum);
printf("\n average of element of array are:%f",avg);
return 0;
}
3
1
2
3
enter the number of elements in array
Enter the array elements :
sum of elements of array is:6.000000
average of element of array are:2.000000
SSE/SF/228/CSE/MTR/022
LG
MENU/ READER/ FUNC./ AUTO/ INPUT/ EXIT


Write a C program to display the details of student(Name , Age) by passing structures to a function.
Sample Input :
Enter No.Students: 1
Enter student 1 Name, Age :AAA, 25
Sample Output:
Student 1 details:
Name: AAA
Age : 25
No.Student: 5
No.Student: 1(62, 28)
No.Student: A
No.Student: 1(xxx, 28.2)
CMQ2
CMQ3
CMQ4
CMQ5
CMQ6
CMQ7
Run
Save
Logout
#include<stdio.h>
struct student
{
char name[50];
int roll;
float marks;
};
int main()
{
struct student s;
printf("enter the information of the student:");
printf("enter the name:");
scanf("%s",s.name);
printf("enter roll no:");
scanf("%d",&s.roll);
printf("enter the marks:");
scanf("%f",&s.marks);
printf("\ndisplaying the info");
printf("name:%s\n",s.name);
printf("roll:%d\n",s.roll);
printf("marks:%.2f\n",s.marks);
return 0;
kavya
13
100
enter the information of the student:enter the name:enter roll no:enter the marks:
displaying the infoname:kavya
roll:13
marks:100.00
SSE/SF/228/CSE/MTR/022
LG
MENU READER FUNC AUTO

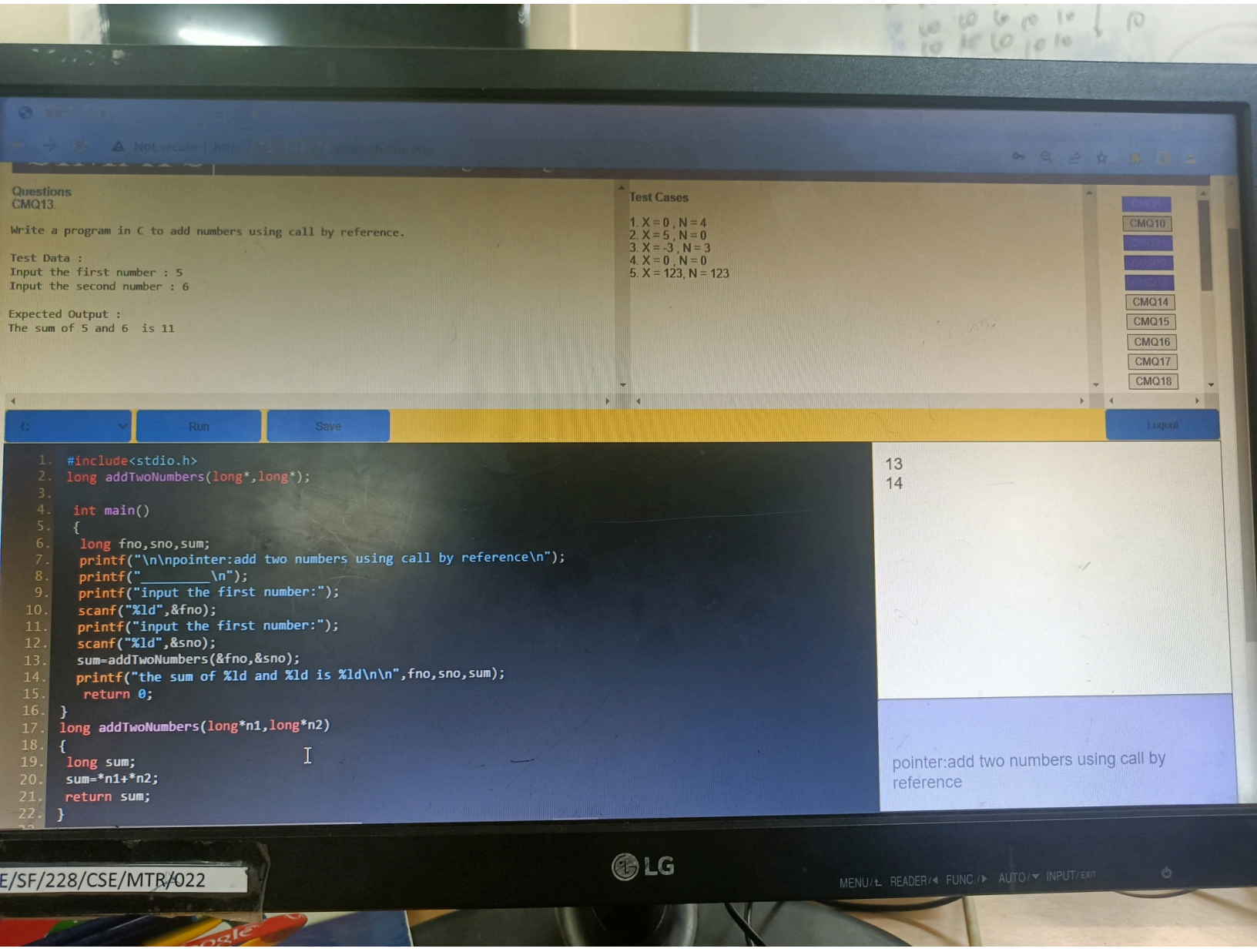

C
Run
Save
#include<stdio.h>
int pri(int n)
{
int i,c=0;
for(i=1;i<=n;i++)
{
if (n%i==0)
{
c++;
}
}
if (c<=2)
{
return 1;
}
}
int main()
{
int n;
printf("enter\n");
scanf("%d",&n);
if (pri(n)==1)
{
printf("%d is prime number",n);
}
else
{
printf("it is not prime");
}
}
Search



SSE/SF/228/CSE/MTR/024



SSE/SF/228/CSE/MTR/022


Questions
CMQ13.
Write a program in C to add numbers using call by reference.
Test Data :
Input the first number : 5
Input the second number : 6
Expected Output :
The sum of 5 and 6 is 11
Test Cases
1. X = 0 , N = 4
2. X = 5 , N = 0
3. X = -3 , N = 3
4. X = 0 , N = 0
5. X = 123, N = 123
CMQ10
CMQ14
CMQ15
CMQ16
CMQ17
CMQ18
C
Run
Save
Logout
#include<stdio.h>
long addTwoNumbers(long*,long*);
int main()
{
long fno,sno,sum;
printf("\n\npointer:add two numbers using call by reference\n");
printf("_____\n");
printf("input the first number:");
scanf("%ld",&fno);
printf("input the first number:");
scanf("%ld",&sno);
sum=addTwoNumbers(&fno,&sno);
printf("the sum of %ld and %ld is %ld\n\n",fno,sno,sum);
return 0;
}
long addTwoNumbers(long*n1,long*n2)
{
long sum;
sum=*n1+*n2;
return sum;
}
13
14
pointer:add two numbers using call by reference
E/SF/228/CSE/MTR/022
LG
MENU READER FUNC. AUTO INPUT EXIT

Write a program in C to print all perfect numbers in given range using the function.

Test Data :
Input lowest search limit of perfect numbers : 1
Input lowest search limit of perfect numbers : 100

Expected Output :
The perfect numbers between 1 to 100 are :
6
28

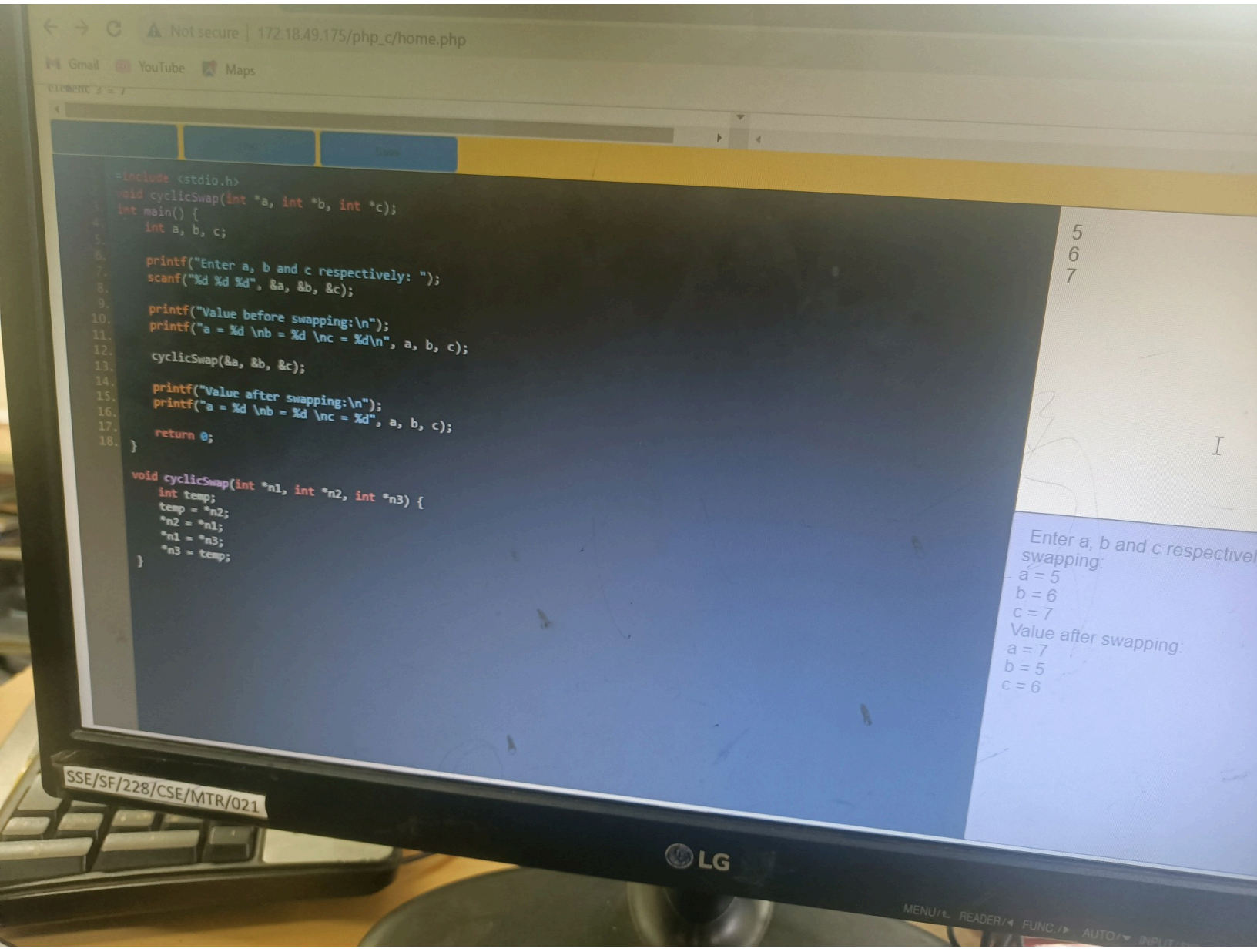
2. 26!
3. 143
4. 84.1
5. -963

Run Save

```c
#include<stdio.h>
int  perf(int n)
{
 int i,s=0;
 for(i=1;i<n;i++)
 {
  if(n%i==0)
  {
   s+=i;
  }
  if(s==n)
  {
   return 1;
  }
 }
}
int main()
{
 int m=5;
 int k=100;
 int i;
 for(i=m;i<=k;i++)
 {
  if(perf(i)==1)
 {
  printf("the perfect numbers are:\n %d\n",i);
  }
 }
 return 0;
 }
```

Your Input Goes Here...!!!

the perfect numbers are:
6
the perfect numbers are:
24
the perfect numbers are:
28


Not secure 172.18.49.175/php_c/home.php
Gmail
YouTube
Maps
#include <stdio.h>
void cyclicSwap(int *a, int *b, int *c);
int main() {
int a, b, c;
printf("Enter a, b and c respectively: ");
scanf("%d %d %d", &a, &b, &c);
printf("Value before swapping:\n");
printf("a = %d \nb = %d \nc = %d\n", a, b, c);
cyclicSwap(&a, &b, &c);
printf("Value after swapping:\n");
printf("a = %d \nb = %d \nc = %d", a, b, c);
return 0;
}
void cyclicSwap(int *n1, int *n2, int *n3) {
int temp;
temp = *n2;
*n2 = *n1;
*n1 = *n3;
*n3 = temp;
}
5
6
7
Enter a, b and c respectivel
swapping:
a = 5
b = 6
c = 7
Value after swapping:
a = 7
b = 5
c = 6
SSE/SF/228/CSE/MTR/021
LG
MENU/
READER/
FUNC./
AUTO/

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Questions
CMQ20

Write a program to reverse a number using function?(Get the input from user).

Sample Input:
Number: 14567

Sample Output:
Reverse Number: 76541

Test Cases

1. -45721
2. 000
3. AD1947
4. !@#$%
5. 145*999=144855

C | Run | Save

```c
#include <stdio.h>

int main() {

  int n, reverse = 0, remainder;

  printf("Enter an integer: ");
  scanf("%d", &n);

  while (n != 0) {
    remainder = n % 10;
    reverse = reverse * 10 + remainder;
    n /= 10;
  }

  printf("Reversed number = %d", reverse);

  return 0;
}
```

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Questions
CMQ16.

Write a program in C to find the factorial of a given number using pointers.

Test Data :
Input a number : 5

Expected Output :
The Factorial of 5 is : 120

Test Cases

1. N = 0
2. N = -5
3. N = 1
4. N = M
5. N = %

C | Run | Save

```c
#include<stdio.h>
int main(){
  int i,f=1,num;

  printf("Enter a number: ");
  scanf("%d",&num);

  for(i=1;i<=num;i++)
      f=f*i;

  printf("Factorial of %d is: %d",num,f);
  return 0;
}
```

5

SSE/SE/22

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Write a program in C to compute the sum of all elements in an array using pointers.

Test Data :
Input the number of elements to store in the array (max 10) : 5
Input 5 number of elements in the array :
element - 1 : 2
element - 2 : 3
element - 3 : 4
element - 4 : 5
element - 5 : 6

Expected Output :

1. N = 0,1,3,8,7,-5
1. N = 5,5,5,5,5,5.4
2. N = -2,2,-2,4,-4
3. N = -5,55,30,0.5
4. N = 0.2,2,4,5,8

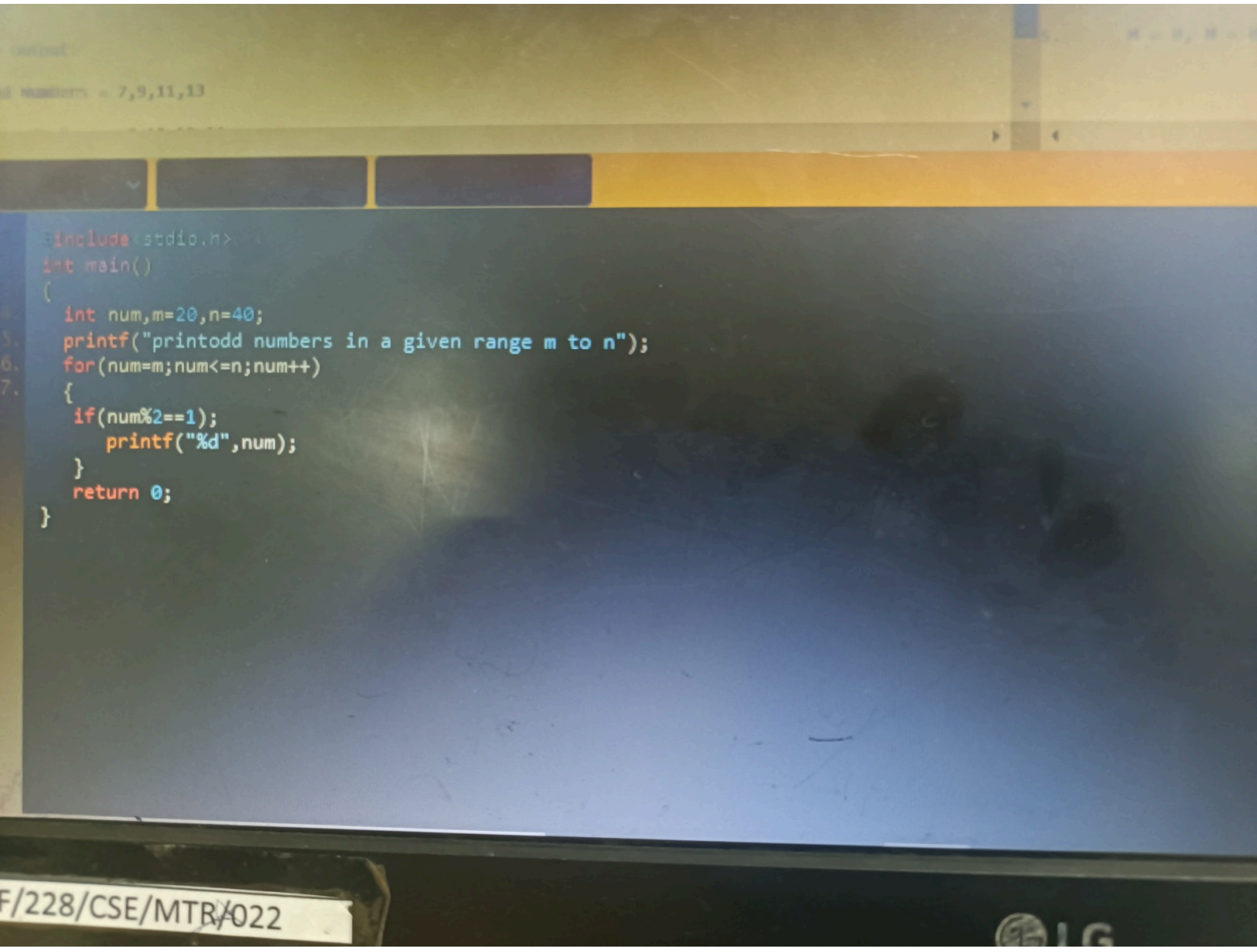
C Run Save

```c
#include <stdio.h>
void main()
{
   int arr1[10];
   int i,n, sum = 0;
   int *pt;

  printf("\n\n Pointer : Sum of all elements in an array :\n");
  printf("-----------------------------------------\n");
   printf(" Input the number of elements to store in the array (max 10) : ");
   scanf("%d",&n);

   printf(" Input %d number of elements in the array : \n",n);
   for(i=0;i<n;i++)
     {
    printf(" element - %d : ",i+1);
    scanf("%d",&arr1[i]);
    }
 for (i = 0; i < n; i++) {
sum = sum + *pt;
      pt++;
   }

   printf(" The sum of array is : %d\n\n", sum);
}
```

5

Pointer Su
Input the nu

SSE/SF/228/CSE/MTR/021


#include<stdio.h>
int main()
{
int num,m=20,n=40;
printf("printodd numbers in a given range m to n");
for(num=m;num<=n;num++)
{
if(num%2==1);
printf("%d",num);
}
return 0;
}
F/228/CSE/MTR/022
LG