DAY-2 C PROGRAMMING PRACTICE

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1.

Questions
CEQ28.

Write a program to print the Fibonacci series.

Sample Input:
Enter the n value: 6

Sample Output:
0 1 1 2 3 5

C | Run | Save

```c
#include<stdio.h>
int main()
{
 int n1=0,n2=1,n3,i,number;
 printf("enter  the number of elements:");
 scanf("%d",&number);
 printf("\n%d %d",n1,n2);
 for(i=2;i<number;++i)
 {
  n3=n1+n2;
  printf(" %d",n3);
  n1=n2;
  n2=n3;
 }
  return 0;
 }
```

6

```
enter  the number of elements:
0 1 1 2 3 5
```

2.

Questions
CEQ29.

Write a program to print the below pattern.

```
1
2  2
3  3  3
4  4   4   4
```

C | Run | Save

```c
#include <stdio.h>
int main()
{
int i,j,n = 4;
for (i = 1 ; i <= n;i++)
{
for (j = 1; j <= i; j++)
{
printf ("%d   ",i);
}
printf(" \n ");
}
return 0;
}
```

4

```
1
2  2
3  3  3
4  4  4  4
```

3.

Questions
CEQ35.

Write a program to find the number of composite numbers in an array of elements

Sample Input;:
Array of elements = {16, 18, 27, 16, 23, 21, 19}

Sample Output:
Number of Composite Numbers = 5

C Run Save

```c
#include<stdio.h>
void main()
{
  int i,n=7,a[100],count=0;
  printf("Enter elements:");
  for(i=0;i<n;i++)
  {
    scanf("%d",&a[i]);
  }
  for(i=0;i<n;i++)
  {
    if(a[i]==2)
     {
       continue;
     }
    else if(a[i]%2==0)
     {
      count++;
     }
   }
   if(count>2)
   {
     printf("\nTotal num of composite nums:%d",count);
   }
}
```

16
18
27
16
23
21
19

Enter elements:
Total num of composite nums:3

4.

Questions
CEQ33.

Find the factorial of n?

Sample Input:
N = 6

Sample Output:
6 Factorial = 720

C Run Save

```c
#include<stdio.h>
int main(){
  int x,fact=1,n;
   printf("enter a number to find the factorail:");
   scanf("%d",&n);
   for(x=1;x<=n;x++)
     fact=fact*x;
   printf("factorail of %d is: %d",n,fact);
   return 0;
}
```

6

```
enter a number to find the factorail:factorail of 6 is: 720
```

5.

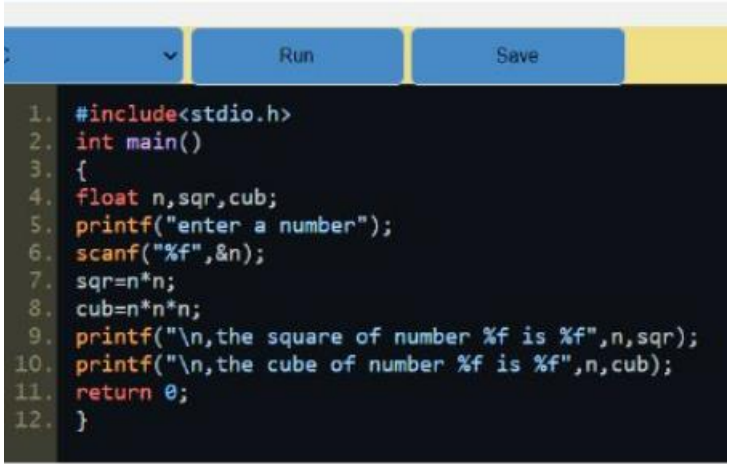
Questions

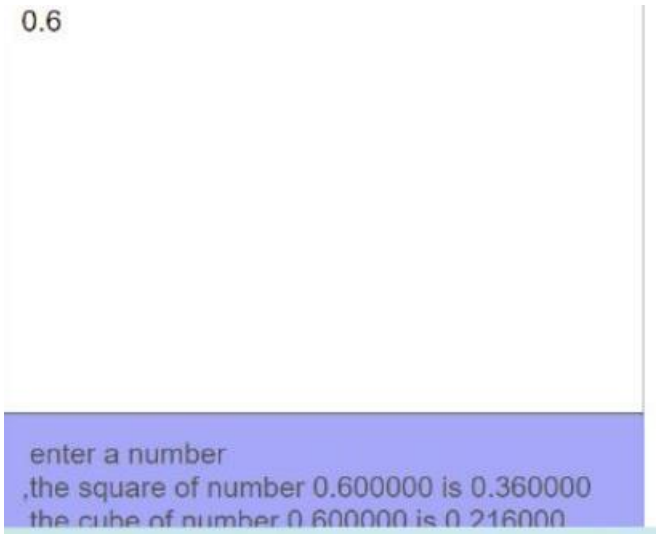
CEQ30.

Write a program to find the square, cube of the given decimal number.

Sample Input:
Given Number: 0.6

Sample Output:
Square Number: 0.36
Cube Number:0.216





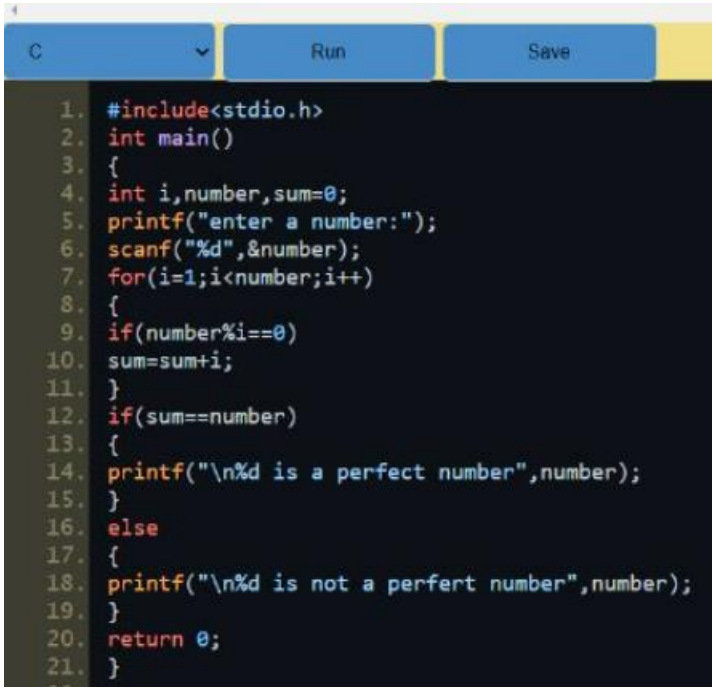
6.

Questions
CEQ32.

Write a program to print the given number is Perfect number or not?

Sample Input:
Given Number: 6

Sample Output:
It’s a Perfect Number



6

enter a number:
6 is a perfect number

7.

Questions
CEQ3.

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

Sample Input:
Number: 14567

Sample Output:
Reverse Number: 76541

```c
#include <stdio.h>
#include<stdlib.h>
int main()
{
int num,rem,reverse=0;
printf("enter the number for find reverse\n");
scanf("%d",&num);
printf("you entered %d\n",num);
for(;num!=0; num=num/10)
{
rem=num%10;
reverse=reverse*10+rem;
}
printf("reverse of the given number %d",reverse);
return 0;
}
```

14567

```
enter the number for find reverse
you entered 14567
reverse of the given number 76541
```

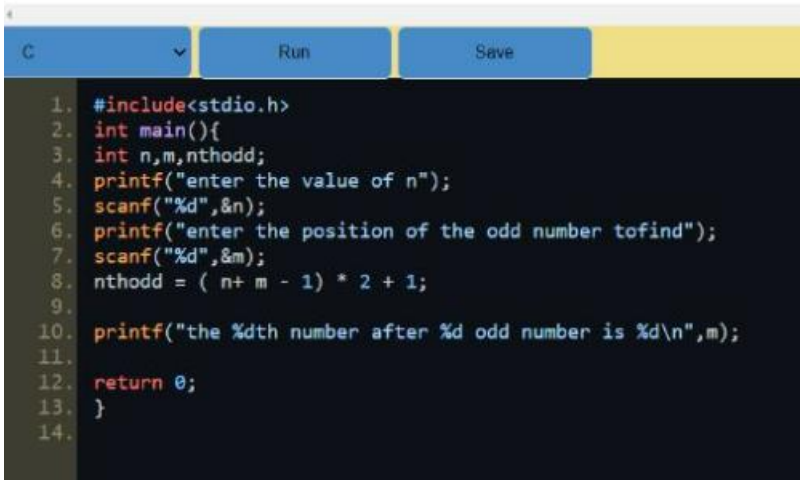
8.

Questions
CEQ36.

Find the nth odd number after n odd number.

Sample Input:
N : 4

Sample Output:
4th Odd number after 4 odd numbers = 15



9.

Questions

CEQ34.

Write a program to print the below pattern.

```
1
4    9
16   25   36
49   64   81   100
```

Test Cases

C | Run | Save

```
1. #include<stdio.h?
2. int main(){
3. int rows,i,j,number=1;
4. printf("enter the number of rows: \n");
5. scanf("%d",&rows);
6. for(i=1;i<=rows;i++){
7. for(j=1;j<=i;++j){
8. printf("%d",number*number);
9. ++number;
10. }
11. printf("\n");
12. }
13. return 0;
14. }
```

DAY-3 AN PROGRAMS

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1.

Questions

CEQ37.

Write a program that finds whether a given character is present in a string or not.
In case it is present it prints the index at which it is present.
Do not use built-in find functions to search the character.

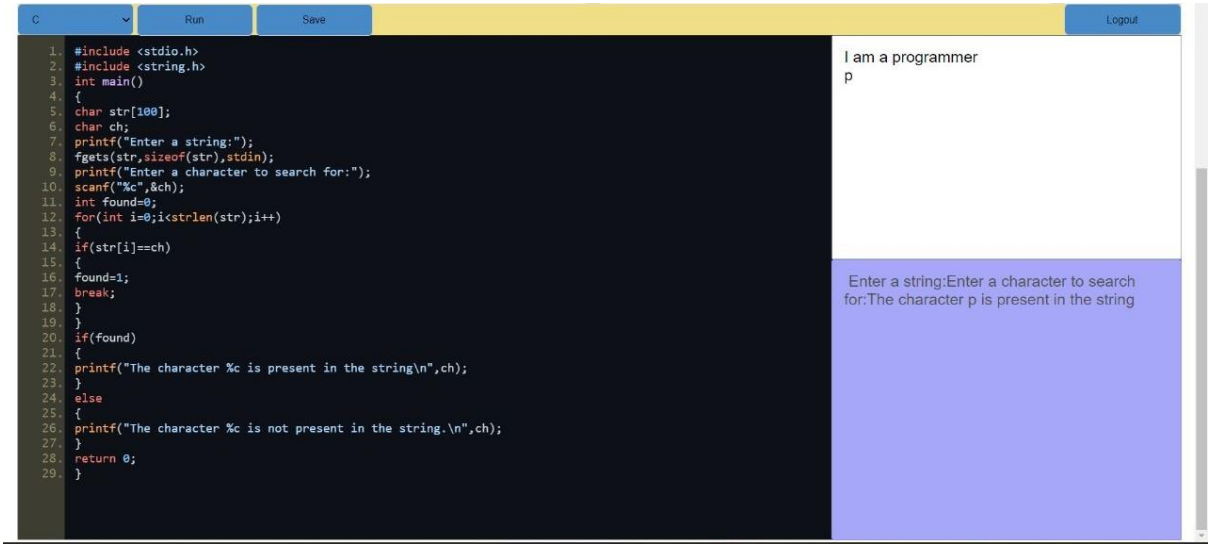
Sample Input:

```
Enter the string: I am a programmer
Enter the character to be searched: p
```

Sample Output:

```
P is found in string at index: 8
```

Note: Check for non-available Character in the given statement as Hidden Test case.

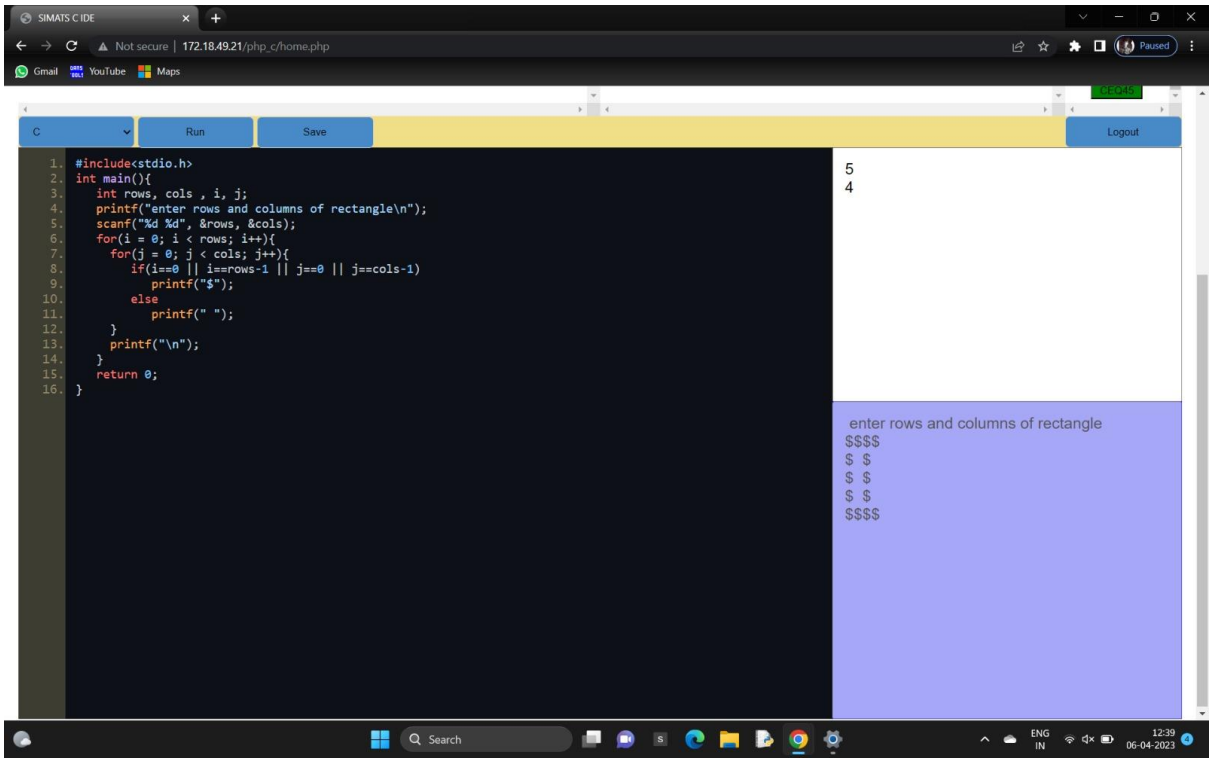


2.

Questions

CEQ42.

Write a program to print hollow Rectangle Dollar pattern?



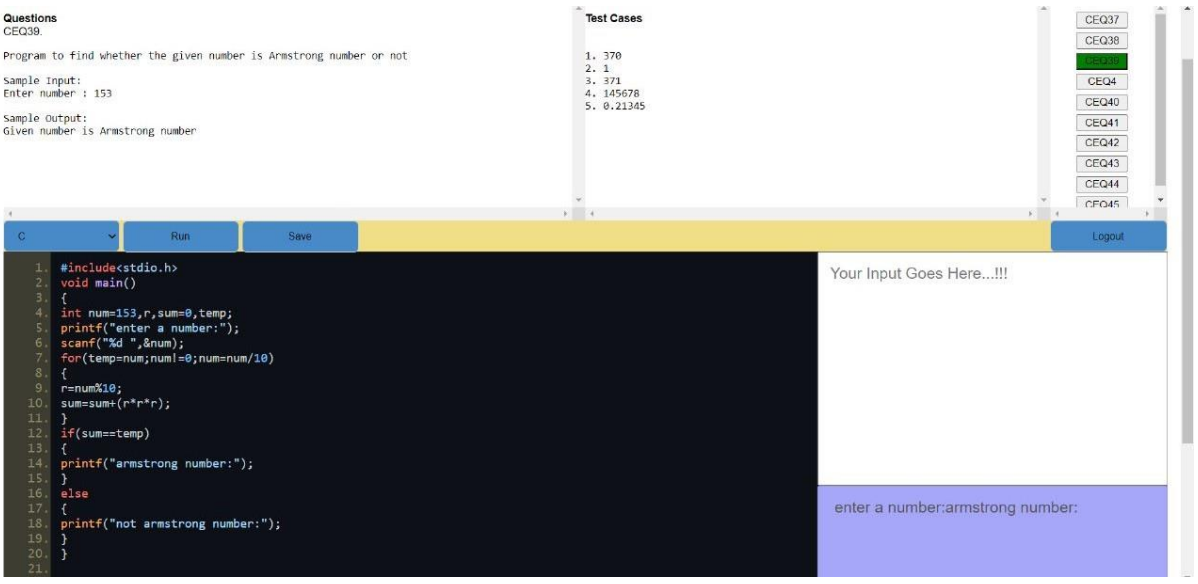
3.

Questions
CEQ39.

Program to find whether the given number is Armstrong number or not

Sample Input:
Enter number : 153

Sample Output:
Given number is Armstrong number

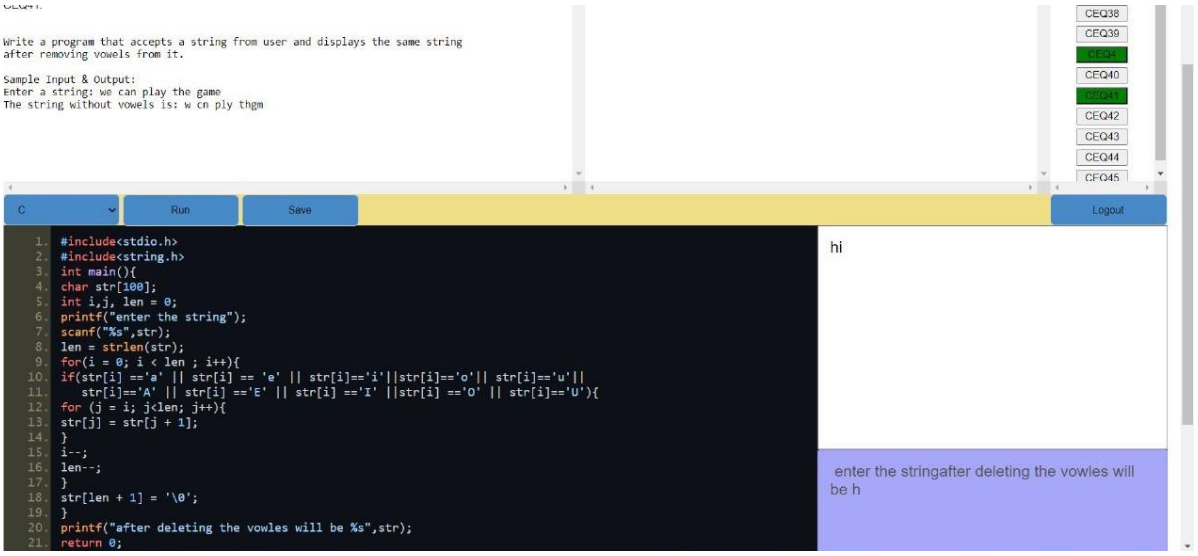


4.

Questions
CEQ41.

Write a program that accepts a string from user and displays the same string after removing vowels from it.

Sample Input & Output:
Enter a string: we can play the game
The string without vowels is: w cn ply thgm



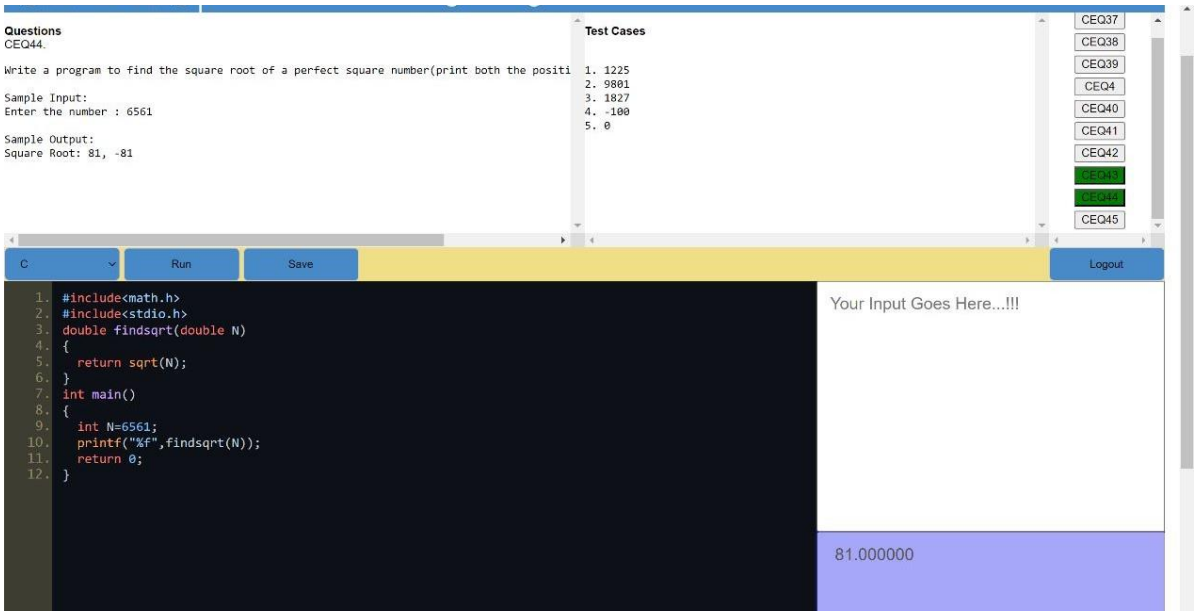
5.

Questions
CEQ44.

Write a program to find the square root of a perfect square number(print both the positive and

Sample Input:
Enter the number : 6561

Sample Output:
Square Root: 81, -81



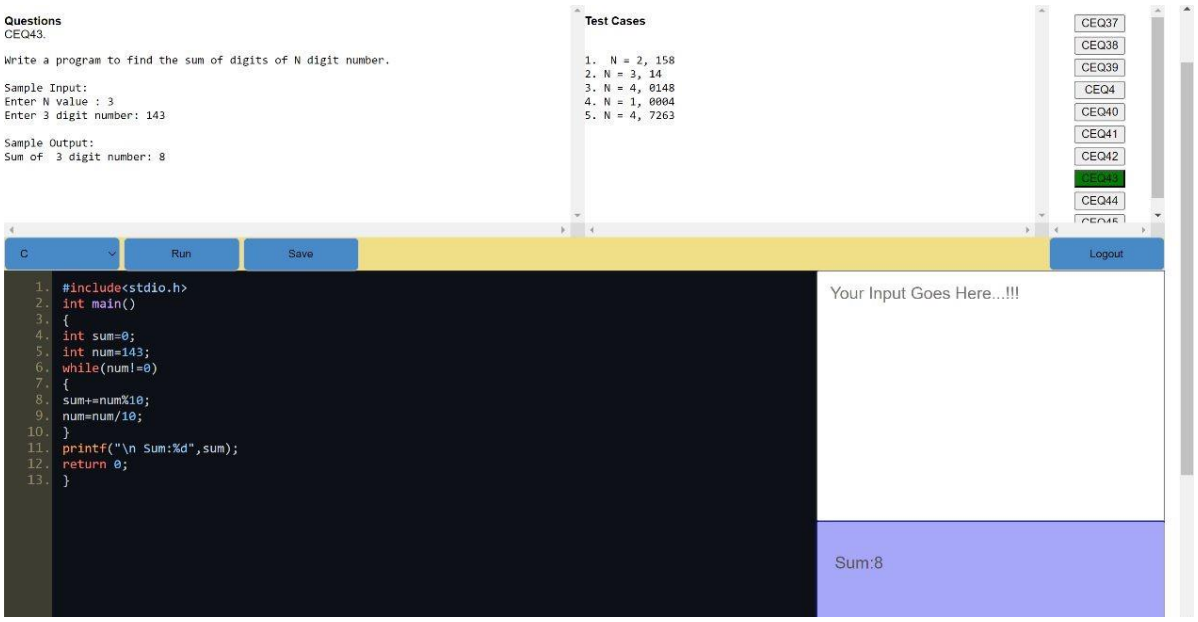
6.

Questions
CEQ43.

Write a program to find the sum of digits of N digit number.

Sample Input:
Enter N value : 3
Enter 3 digit number: 143

Sample Output:
Sum of 3 digit number: 8

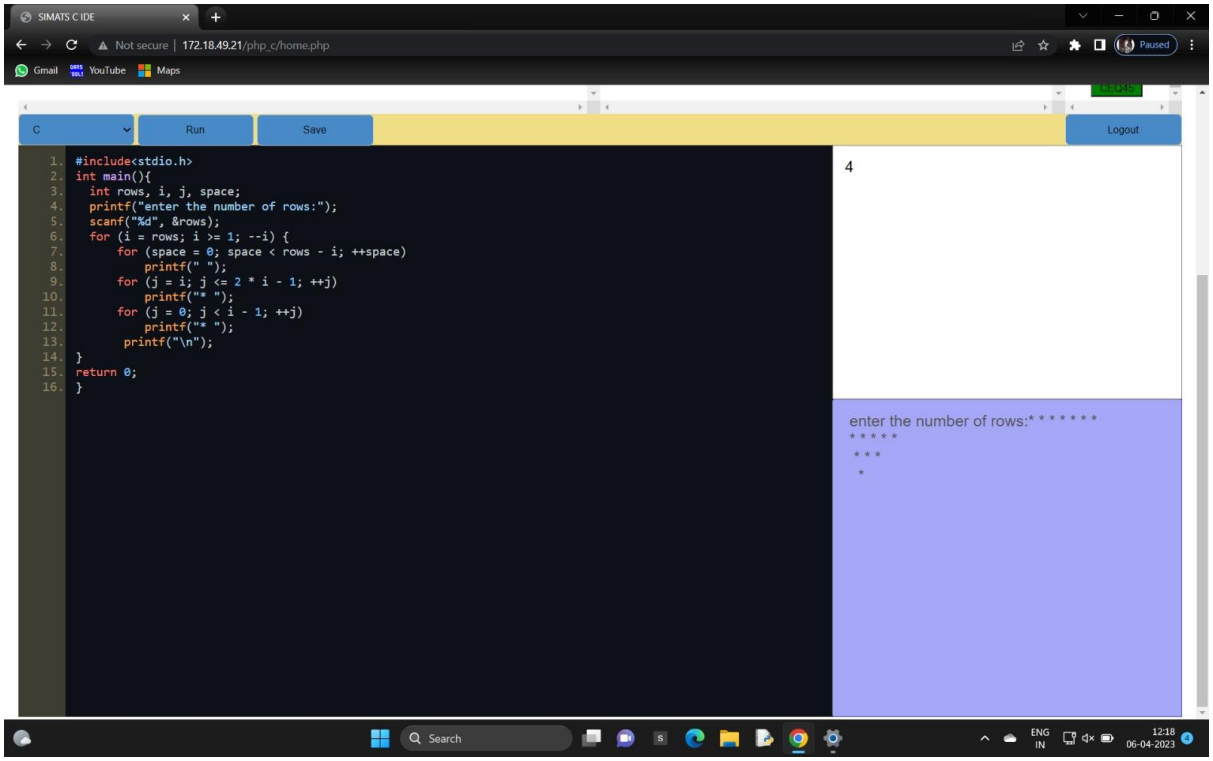


7.

Questions

CEQ45.

Write a program to print inverted pyramid pattern.



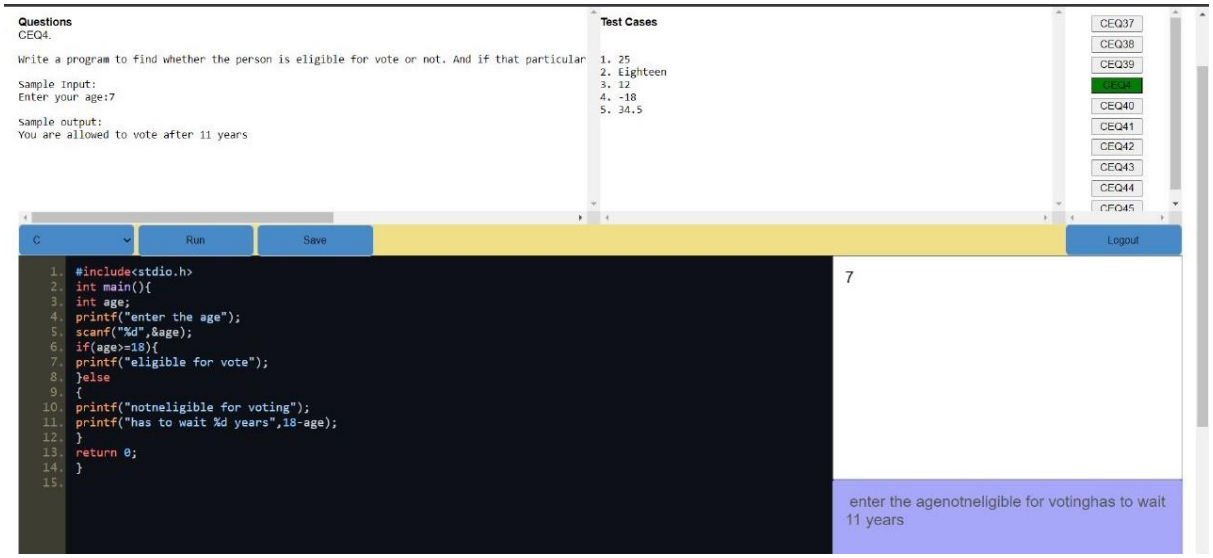
8.

Questions
CEQ4.

Write a program to find whether the person is eligible for vote or not. And if that particular

Sample Input:
Enter your age:7

Sample output:
You are allowed to vote after 11 years



9.