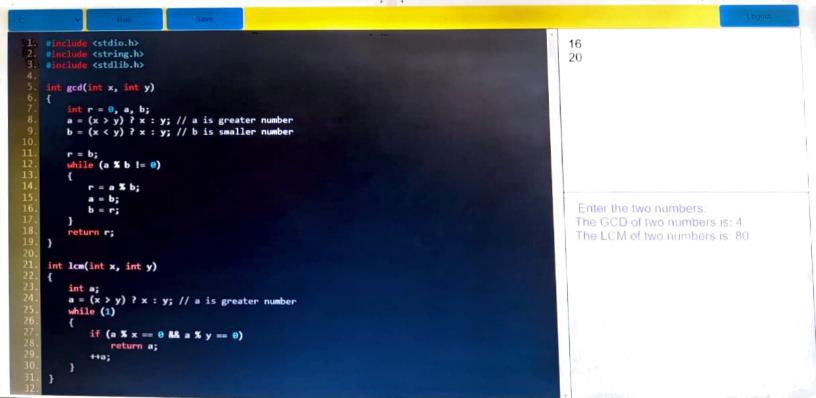
```
Science
       #include <stdio.h>
       #include <stdlib.h>
                                                                                                         science 82
       struct course {
                                                                                                         DSA 73
         int marks;
        char subject[30];
      int main() {
        struct course *ptr:
  10.
        int noOfRecords;
        printf("Enter the number of records: ");
        scanf("%d", &noOfRecords);
        ptr = (struct course *)malloc(noOfRecords * sizeof(struct course));
                                                                                                          Enter the number of records: Enter
        for (int i = 0; i < noOfRecords; ++i) {
                                                                                                          subject and marks:
          printf("Enter subject and marks:\n");
          scanf("%s %d", (ptr + i)->subject, &(ptr + i)->marks);
                                                                                                          Enter subject and marks:
                                                                                                          Displaying Information:
                                                                                                                   82
                                                                                                          science
        printf("Displaying Information:\n");
                                                                                                          DSA73
        for (int i = 0; i < noOfRecords; ++i) {
          printf("%s\t%d\n", (ptr + i)->subject, (ptr + i)->marks);
        free(ptr);
        return 0:
```

Sample Output :

```
. .
    . . .
 . . . . .
 1. #include <stdio.h>
                                                                                                                   5
 2. int main()
        int row = 0, column = 0;
        int numberOfRows = 0;
        printf("Enter the number of rows: ");
        scanf("%u", &numberOfRows);
        for(row=1; row<=numberOfRows; ++row)
11.
12.
13.
14.
15.
16.
17.
18.
20.
21.
          for(column=row; column<numberOfRows; ++column)
           printf(" ");
                                                                                                                    Enter the number of rows:
          for(column=1; column<=row; ++column)
            printf("*");
         printf("\n");
       return 0;
```

ourbar.

```
#include (stdio.h>
   #include <stdlib.h>
  int main()
                                int num1, num2,r,i;
6.
     printf("Enter the first number for the range: ");
     scanf("%d",&num1);
10.
     printf("Enter the second number for the range: ");
      scanf("%d",&num2);
12.
     printf("\nDisplay the even numbers between %d and %d are: ",num1,num2);
13.
     for(i=num1; i<=num2; i++){
        r=132
                                                                         Display the even numbers between 6
        if(r==0)
                                                                         and 15 are:
           printf("\n %d",i);
18.
                                                                          10
      printf("\n\nDisplay the odd numbers between %d and %d are: ",num1,num2);
      for(i=num1; i<=num2; i++){
        r=i%2;
        if(r==1)
                                                                         Display the odd numbers between 6
           printf("\n %d",i);
                                                                          and 15 are:
      return 0:
```



1. #include(stdio.h> We can play the game #include(conio.h>

```
3. int main()
         char str[50];
         int i=0, j, chk;
7.
8.
9.
10.
         printf("Enter a String: ");
         gets(str);
         while(str[i]!='\0')
          chk=8:
          if(str[i]=='a'||str[i]=='e'||str[i]=='i'||str[i]=='o'||str[i]=='u'||str[i]=='A'||str[i]=='E'
13.
14.
15.
16.
           j=i;
          while(str[j-1]!='\0')
                                                                                                                  Enter a String:
                                                                                                                  String (without vowels): W on ply th gm
17.
18.
19.
            str[j] = str[j+1];
            j**;
```

chk = 1;

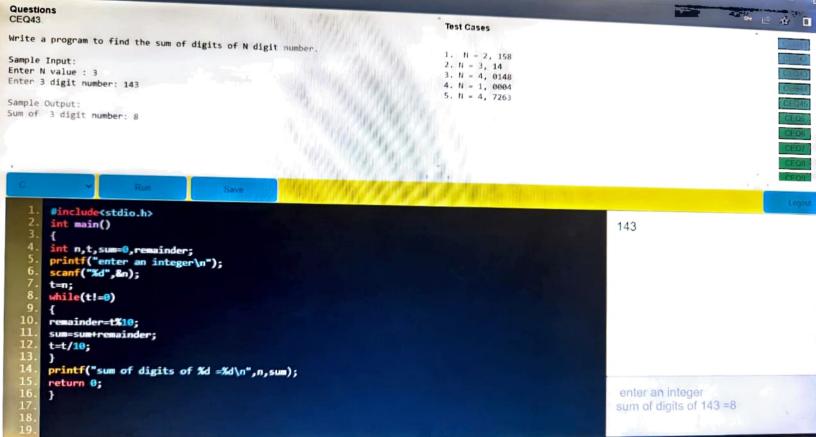
return 0;

if(chk==0) i++;

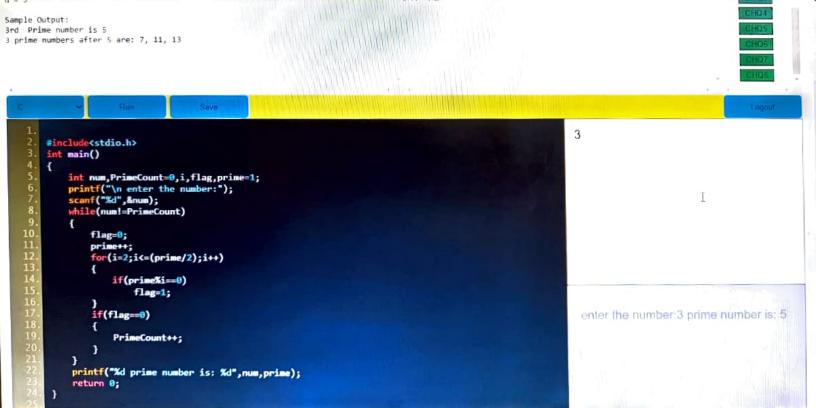
printf("\nString (without vowels): %s", str);

21. 22. 23. 24. 25. 26.

```
#include <stdio.h>
                                                                                                Your Input Goes Here ...!!!
   checkArmstrong(int n1);
   checkPerfect(int n1):
int main()
 int n1;
 printf("\n\n Function : check Armstrong and perfect numbers :\n");
 printf("----\n"):
 printf(" Input any number: ");
 scanf("%d", &n1);
 if(checkArmstrong(n1))
      printf(" The %d is an Armstrong number.\n", n1);
   else
      printf(" The %d is not an Armstrong number.\n", n1);
                                                                                                 Function check Armstrong and perfect
   if(checkPerfect(n1))
                                                                                                 Input any number. The 371 is an
      printf(" The %d is a Perfect number.\n\n", n1);
                                                                                                Armstrong number
                                                                                                 The 371 is not a Perfect number.
   else
      printf(" The %d is not a Perfect number.\n\n", n1);
   return 0;
```



```
Sample Output: 33
(N = 4. So here the Fibonacci series will be produced from 0th term till 8th term:0
Sum of numbers at even indexes = 0 + 1 + 3 + 8 + 21 = 33)
                                                                              1. #include (stdio.h>
       #include <math.h>
                                                                                                                    013821
       int main()
  4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
       1
              int f1, f2, f3, n, i=2, s=1;
              f1=0;
              f2=1:
              printf("How many terms do you \nwant in Fibonacci series? : ");
              scanf("%d",&n);
              printf("\nFibonacci Series Upto %d Terms:\n\n",n);
              printf("%d, %d",f1,f2);
              while(i(n)
                     f3=f1+f2;
                     printf(", %d",f3);
                     f1=f2:
                                                                                                                     How many terms do you
                     f2=f3;
                     s=s+f3;
                     i++;
              printf("\n\nSum of Fibonacci Series : %d",s);
               return 0:
```

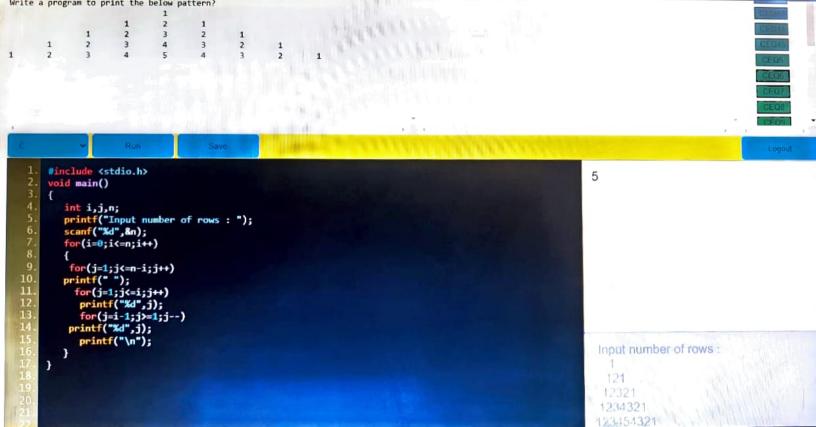


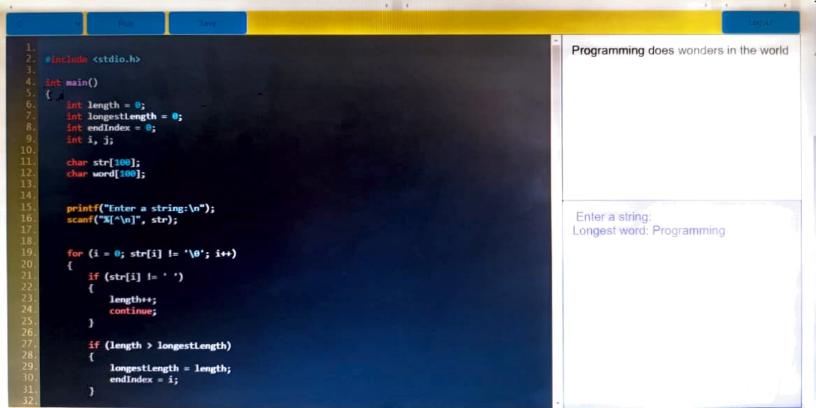
```
#include <stdio.h>
                                                                                                                                  5
      #include (conio.h>
  3. int main()
          int i, j, rows, k, m = 1;
7.
8.
9.
10.
11.
12.
13.
16.
17.
18.
20.
21.
22.
22.
23.
24.
25.
          printf (" Enter a number to define the rows: \n");
          scanf ("%d", &rows);
          printf("\n");
          for ( i = rows; i >= 1; i--)
               for (j = 1; j \leftarrow m; j \leftrightarrow)
                    printf (" ");
                                                                                                                                  Enter a number to define the rows:
               for (k = 1; k \leftarrow (2 * i - 1); k++)
                    printf ("* ");
                m++;
                printf ("\n");
          return 0:
```

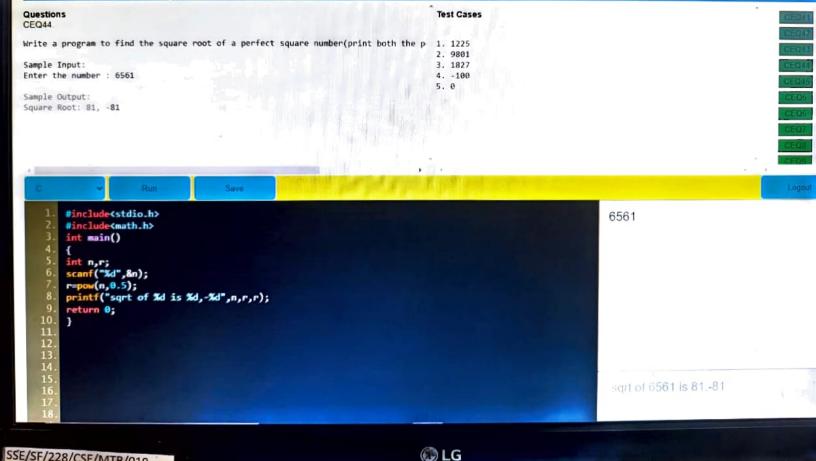
```
Write a program using function to calculate the simple interest. Suppose the
                                                                                 1. Principal: 2000 , Year
customer is a senior citizen. He is being offered 12 percent rate of interest;
                                                                                 2. Principal: 20000 , Yes
                                                                                 3. Principal: -2000 , Yes
for all other customers, the ROI is 10 percent.
                                                                                 4. Principal: 2 , Years:
                                                                                 5. Principal: 0 , Years:
Sample Input:
Enter the principal amount: 200000
Enter the no of years: 3
Is customer senior citizen (y/n): n
Sample Output:
Interest: 60000
                                       Save
        #include <stdio.h>
        int main()
         float principle, rate, sinterest:
    6.
         int time:
   7
8
         printf("Enter Principle Amount, Rate XX per Annum and Time\n");
  9
10
11
12
13
         scanf ("%f %f %d", &principle, &rate, &time);
         sinterest = (principle * rate * time)/ 100.0;
         printf ("Principle Amount = %5.2f\n", principle);
         printf ("Rate %% per Annum = %5.2f%\n", rate);
         printf ("Time = %d years\n", time);
         printf ("Simple Interest = %5.2f\n", sinterest);
```

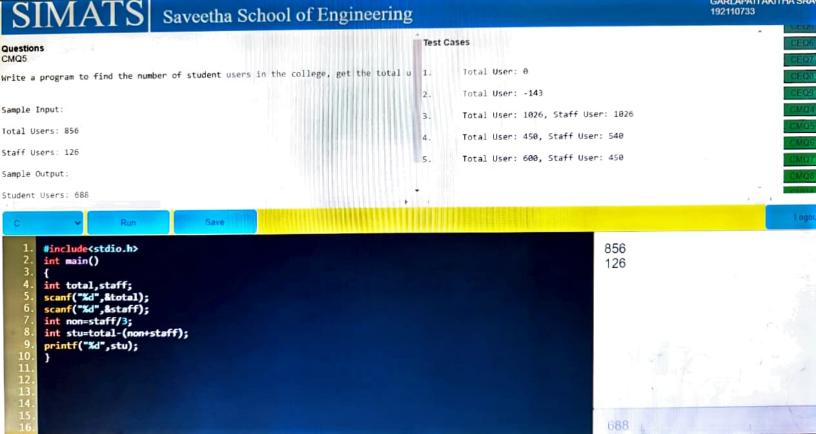
Questions CEOB

```
#include<stdio.h>
     int main()
3.
4.
5.
6.
7.
8.
         int c, first, last, middle, n, search, array[100];
         printf("Enter number of elements\n");
         scanf("%d",&n);
         printf("Enter %d integers\n", n);
         for ( c = 0; c < n; c++ )
 9.
             scanf("%d",&array[c]);
10.
         printf("Enter value to find\n");
11.
         scanf("%d", &search);
12.
         first = 0:
13.
         last = n - 1;
14.
         middle = (first+last)/2;
15.
         while( first <= last )
16.
         {
17.
             if ( array[middle] < search )</pre>
18
                  first = middle + 1;
19
             else if ( array[middle] == search )
21
22
23
24
25
26
27
28
29
30
                  printf("%d found at location %d.\n", search, middle+1);
                  break;
             else
                  last = middle - 1;
             middle = (first + last)/2;
         if (first > last)
             printf("Not found! %d is not present in the list.\n", search);
         return 0;
```









```
Run
                                   Save
1.
2.
3.
4.
5.
    #include <stdio.h>
    void main()
         int arr1[100];
         int i, mx, mn, n;
8. 1
9.
            printf("\n\nFind maximum and minimum element in an array :\n");
10.
            printf("-----\n"):
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.
21.
22.
23.
24.
25.
            printf("Input the number of elements to be stored in the array :");
            scanf("%d",&n);
             printf("Input %d elements in the array :\n",n);
             for(i=0;i<n;i++)
              printf("element - %d : ",i);
              scanf("%d",&arr1[i]);
          mx = arr1[0];
          mn = arr1[0];
           for(i=1; i<n; i++)
               if(arr1[i]>mx)
                    mx = arr1[i];
```

