

# DAY-6 MODEL

YOGESH KUMAR K

192225005

1.

The screenshot shows the SIMATS C IDE interface. The top bar displays the SIMATS logo and 'Saveetha School of Engineering'. The user's name 'YOGESH KUMAR K' and ID '192225005' are in the top right. The left sidebar contains 'Questions' and 'Test Cases'. The main editor shows a C program that removes vowels from a string. The program uses a loop to iterate through the string and shifts characters to the left if they are vowels. The output shows the string 'we can play the game' and the result 'w c n ply thgm'.

```
1. #include<stdio.h>
2. #include<string.h>
3. int main(){
4. char str[100];
5. int i,j, len = 0;
6. printf("enter the string");
7. scanf("%s",str);
8. len = strlen(str);
9. for(i = 0; i < len; i++){
10. if(str[i]!='a' || str[i]!='e' || str[i]!='i' || str[i]!='o' || str[i]!='u' ||
11. str[i]!='A' || str[i]!='E' || str[i]!='I' || str[i]!='O' || str[i]!='U'){
12. for(j=i;j<len;j++){
13. str[j]=str[j+1];
14. }
15. i--;
16. len--;
17. }
18. str[len + 1] = '\0';
19. }
20. printf("after deleting the vowel will be %s",str);
21. return 0;
22. }
23.
```

we can play the game

enter the string after deleting the vowel will be w c n ply thgm

2.

The screenshot displays the SIMATS C IDE web interface. The browser address bar shows the URL `172.18.60.6/php_c/home.php`. The page header includes the SIMATS logo and the text "Saveetha School of Engineering". The user's name, "YOGESH KUMAR K 192225005", is visible in the top right corner.

The main content area is divided into two sections: "Questions" and "Test Cases". The "Questions" section contains the following text:

CEQ42  
Write a program to print hollow Rectangle Dollar pattern?

The "Test Cases" section shows a list of test cases, with the first one labeled "CEQ42" and a "Run" button next to it.

The code editor displays the following C program:

```
1. #include<stdio.h>
2. int main(){
3.     int rows, cols, i, j;
4.     printf("Enter rows and columns of rectangle\n");
5.     scanf("%d %d", &rows, &cols);
6.     for(i = 0; i < rows; i++){
7.         for(j = 0; j < cols; j++){
8.             if(i==0 || i==rows-1 || j==0 || j==cols-1)
9.                 printf(" & ");
10.            else
11.                printf(" ");
12.        }
13.        printf("\n");
14.    }
15.    return 0;
16. }
```

The output window shows the input "5" and "4", followed by the pattern:

```
enter rows and columns of rectangle
& & & &
& &
& &
& &
& & & &
```

The Windows taskbar at the bottom shows the system clock as 14:04 on 10-04-2023.

3.

The screenshot displays the SIMATS C IDE web interface. The browser address bar shows the URL `172.18.60.6/php_c/home.php`. The page header includes the SIMATS logo and "Saveetha School of Engineering". The user is logged in as YOGESH KUMAR K with ID 102225005.

**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

**Test Cases**

1. N = 2, 158	Pass
2. N = 3, 14	Pass
3. N = 4, 0148	Pass
4. N = 1, 0004	Pass
5. N = 4, 7263	Pass

Buttons: Run, Save, Logout

**Code Editor**

```
1. #include<stdio.h>
2. int main()
3. {
4.     int sum=0;
5.     int num=143;
6.     while(num!=0)
7.     {
8.         sum+=num%10;
9.         num=num/10;
10.    }
11.    printf("\n sum:%d",sum);
12.    return 0;
13. }
```

**Input/Output Area**

Your Input Goes Here...!!!

sum:8

The Windows taskbar at the bottom shows the date and time as 14:04 on 10-04-2023.

4.

The screenshot displays the SIMATS C IDE web application interface. The browser address bar shows the URL `172.18.60.6/php_c/home.php`. The page header includes the SIMATS logo and the text "Saveetha School of Engineering". The user's name, YOGESH KUMAR K, and ID, 192225005, are visible in the top right corner.

**Questions**  
CEQ44

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

**Sample Input:**  
Enter the number : 6561

**Sample Output:**  
Square Root: 81, -81

**Test Cases**

Test Case	Status
1. 1225	Passed
2. 9801	Passed
3. 1827	Passed
4. -100	Passed
5. 0	Passed

**Code Editor**

```
1. #include<stdio.h>
2. #include<math.h>
3. int main(){
4.     int num;
5.     printf("enter the number:");
6.     scanf("%d",&num);
7.     int root = sqrt(num);
8.     if(root * root == num){
9.         printf("square root of %d is %d\n",num,root);
10.        printf("negative square root of %d is %d\n",num,-root);
11.    }
12.    else{
13.        printf("%d is not perfect square \n",num);
14.    }
15.    return 0;
16. }
```

**Output**

6561

enter the number:square root of 6561 is 81  
negative square root of 6561 is -81

The interface includes buttons for "Run", "Save", and "Logout". The Windows taskbar at the bottom shows the system time as 14:05 on 10-04-2023.

5.

The screenshot displays the SIMATS C IDE web interface. The browser address bar shows the URL `172.18.60.6/php_c/home.php`. The page header includes the SIMATS logo and 'Saveetha School of Engineering'. The user is logged in as 'YOGESH KUMAR K' with ID '192225005'. The 'Questions' section contains a problem statement: 'Write a program to print inverted pyramid pattern.' The 'Test Cases' section on the right lists several test cases, with 'CEQ8' selected. The main editor area shows a C program that takes an integer 'rows' as input and prints an inverted pyramid of asterisks. The program code is as follows:

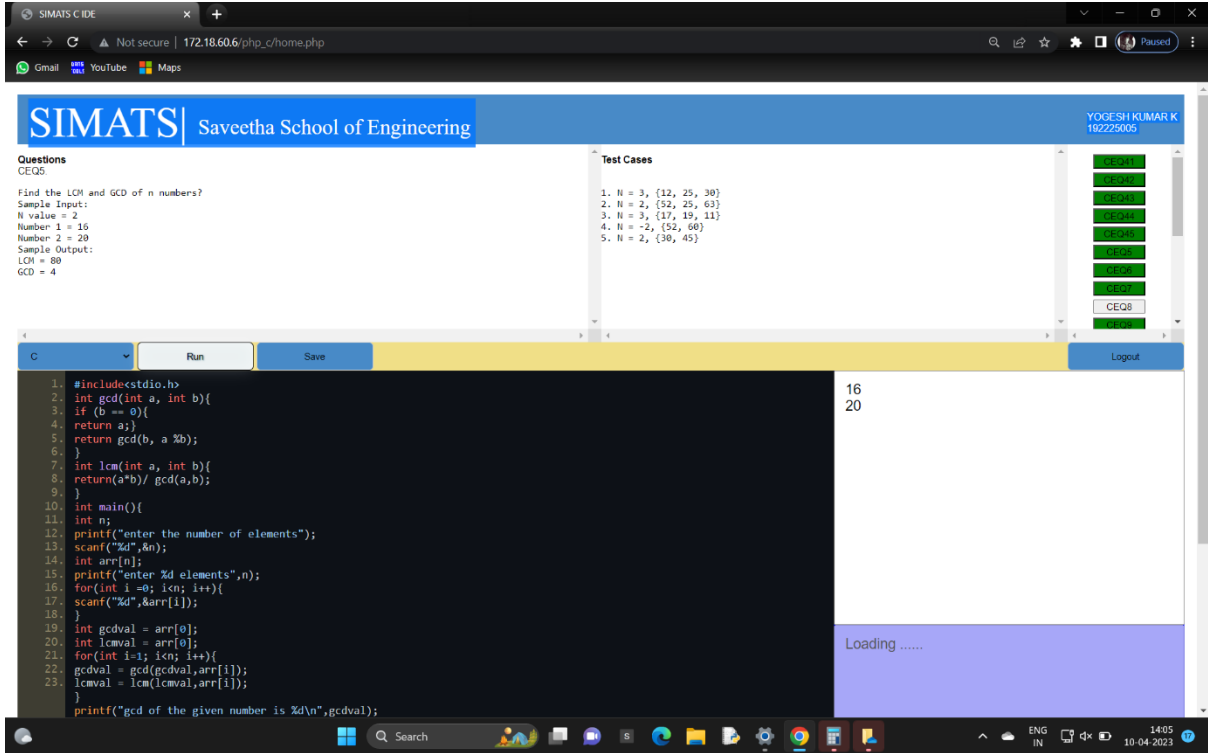
```
1. #include<stdio.h>
2. int main(){
3.     int rows, i, j, space;
4.     printf("\n");
5.     scanf("%d", &rows);
6.     for(i= rows; i >= 1; --i){
7.         for(space=0; space < rows - i; ++space)
8.             printf(" ");
9.         for(j = i; j <= 2 * i - 1; ++j)
10.            printf(" * ");
11.         for (j = 0; j < i - 1; ++j)
12.            printf(" * ");
13.         printf("\n");
14.     }
15.     return 0;
16. }
```

The output of the program for an input of 4 is shown in the bottom right corner:

```
4
* * * * *
* * * * *
* * * * *
* * * * *
```

The Windows taskbar at the bottom shows the system clock as 14:05 on 10-04-2023.

6.



7.

The screenshot shows the SIMATS C IDE interface. The top browser bar displays the URL `172.18.60.6/php_c/home.php`. The main editor area contains a C program designed to print a right triangle star pattern for `n = 5`. The code is as follows:

```
1. #include<stdio.h>
2. int main()
3. {
4.     int i, j, k;
5.     for(i = 1; i <= 5; i++)
6.     {
7.         for(j = 5; j > i; j--)
8.         {
9.             printf(" ");
10.        }
11.        for(k = 1; k <= j; k++)
12.        {
13.            printf("*");
14.        }
15.        printf("\n");
16.    }
17.    return 0;
18. }
```

On the right side of the IDE, there is a 'Test Cases' panel with a list of test cases (CEQ8, CMQ7, etc.) and a 'Your Input Goes Here...!!!' text area. The bottom status bar shows the system date and time as 10-04-2023, 14:23.

8.

The screenshot displays the SIMATS C IDE web interface. At the top, the header includes the SIMATS logo and 'Saveetha School of Engineering'. The user's name 'YOGESH KUMAR K.' and ID '162225005' are visible in the top right. The main content area is divided into three sections: 'Questions', 'Test Cases', and a code editor. The 'Questions' section contains a problem statement: 'Write a program to print the below pattern?' followed by a diamond pattern of numbers. The 'Test Cases' section shows a list of test cases, with 'CEQ8' selected. The code editor displays a C program that prints the diamond pattern. The output of the program is shown in a box on the right, displaying the same diamond pattern. The Windows taskbar is visible at the bottom of the screen.

**Questions**  
CEQ7.  
Write a program to print the below pattern?

1 2 3 4 5 4 3 2 1

**Test Cases**

YOGESH KUMAR K.  
162225005

CEQ7  
CEQ8  
CEQ9  
CEQ10  
CEQ11  
CEQ12  
CEQ13  
CEQ14  
CEQ15  
CEQ16  
CEQ17  
CEQ18  
CEQ19  
CEQ20  
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CEQ90  
CEQ91  
CEQ92  
CEQ93  
CEQ94  
CEQ95  
CEQ96  
CEQ97  
CEQ98  
CEQ99  
CEQ100

**Code Editor**

```
1. #include<stdio.h>
2. int main(){
3.     int n = 5;
4.     int i, j, k;
5.     for(i = 1; i <= n; i++){
6.         for(j = 1; j <= n - i; j++){
7.             printf(" ");
8.         }
9.         for(k = 1; k <= i; k++){
10.            printf("%d", k);
11.        }
12.        for(k = i - 1; k >= 1; k--){
13.            printf("%d", k);
14.        }
15.        printf("\n");
16.    }
17.    return 0;
18. }
```

**Output**

```
1
1 2 1
1 2 3 2 1
1 2 3 4 3 2 1
1 2 3 4 5 4 3 2 1
```



9.

The screenshot displays the SIMATS C IDE web interface. The browser address bar shows the URL `172.18.60.6/php_c/home.php`. The page header includes the SIMATS logo and the text "Saveetha School of Engineering". The user's name, YOGESH KUMAR K, and ID, 192225005, are visible in the top right corner.

**Questions**  
CEQ8  
Write a C Program to Find Even Sum of Fibonacci Series Till number N?  
Sample Input: n = 4  
Sample Output: 33  
(N = 4, So here the Fibonacci series will be produced from 0th term till 8th term: 0, 1, 1, 2, 3, 5, 8, 13  
Sum of numbers at even indexes = 0 + 1 + 3 + 8 + 21 = 33)

**Test Cases**

Test Case	Result
CEQ8	Pass
CEQ8	Pass
CEQ8	Pass
CEQ8	Pass
CEQ8	Pass
CEQ8	Pass
CEQ8	Pass
CEQ8	Pass
CEQ8	Pass
CEQ8	Pass

**Code Editor**

```
1. #include<stdio.h>
2. int calculateevensum(int n)
3. {
4.     if(n <= 0)
5.         return 0;
6.     int fibo[2 * n + 1];
7.     fibo[0] = 0, fibo[1] = 1;
8.     int sum = 0;
9.     for (int i = 2; i <= 2 * n; i++){
10.         fibo[i] = fibo[i-1] + fibo[i - 2];
11.         if (i % 2 == 0)
12.             sum += fibo[i];
13.     }
14.     return 0;
15. }
16. int main()
17. {
18.     int n = 4;
19.     int sum = calculateevensum(n);
20.     printf("even indexed fibonacci sum upto %d terms = %d",n, sum);
21.     return 0;
22. }
23.
```

**Input/Output**

Your Input Goes Here....!!!

even indexed fibonacci sum upto 4 terms = 0

The bottom of the image shows a Windows taskbar with various application icons and a system clock indicating 14:06 on 10-04-2023.

10.

The screenshot displays the SIMATS C IDE web interface. The browser address bar shows the URL `172.18.60.6/php_c/home.php`. The page header includes the SIMATS logo and the text "Saveetha School of Engineering".

**Questions**  
Q004  
Write a program to print the all odd numbers and number of even numbers in between N and M?  
Sample Input:  
M = 6  
N = 15  
Sample Output:  
All Odd Numbers = 7,9,11,13

**Test Cases**

Sr	Test Case
1.	M = 100, N = 100
2.	M = 100, N = 100
3.	M = -5, N = 6
4.	M = 72, N = -72
5.	M = 6, N = 6

**Code Editor**

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

**Output**

6  
15

enter the first number for the range, enter the second number for the range:  
6  
15  
Display the even numbers between 6 and 15 are:  
6  
8  
10  
12  
14

Display the odd numbers between 6 and 15 are:  
7  
9  
11  
13  
15

The Windows taskbar at the bottom shows the date and time as 10-04-2023, 14:07.

11.

The screenshot displays the SIMATS C IDE interface. At the top, the browser address bar shows '172.18.60.6/php\_c/home.php'. The main header includes the 'SIMATS' logo and 'Saveetha School of Engineering'. The user 'YOOGESH KUMAR K' is logged in with ID '192229005'. The interface is divided into several sections:

- Questions:** A list of questions, with 'CMQ5' selected. The question text is: 'Write a program to find the number of student users in the college, get the total users, staff users details from the'. Sample Input: Total Users: 856, Staff Users: 126. Sample Output: Student Users: 688.
- Test Cases:** A list of five test cases:
  1. Total User: 0
  2. Total User: -143
  3. Total User: 1026, Staff User: 1026
  4. Total User: 450, Staff User: 540
  5. Total User: 600, Staff User: 450
- Code Editor:** A C program for calculating user statistics:

```
1. #include<stdio.h>
2. int main()
3. {
4.     int student_users,total_users,staff_users;
5.     printf("\n enter the number of student users");
6.     scanf("%d",&student_users);
7.     printf("\n enter the total number of users");
8.     scanf("%d",&total_users);
9.     staff_users=total_users-student_users;
10.    int non_teaching_staff_users=staff_users/3;
11.    printf("\n number of student user %d", student_users);
12.    printf("\n number of staff_users %d", staff_users);
13.    printf("\n number of non_teaching staff users %d", non_teaching_staff_users);
14.    return 0;
15. }
```
- Output:** The program's output is displayed in a blue box:

```
856
126

enter the number of student users
enter the total number of users
number of student user 856
number of staff_users -730
number of non_teaching staff users -243
```

The bottom of the screen shows the Windows taskbar with the search bar and system clock indicating 14:07 on 10-04-2023.

12.

The screenshot displays the SIMATS C IDE web interface. At the top, the header shows "SIMATS | Saveetha School of Engineering" and the user "YOJESH KUMAR K 192229005". The left sidebar contains "Questions" and "Test Cases" sections. The main area is divided into three panes: a code editor, an input field, and an output field. The code editor contains a C program that finds the longest word in the sentence "Programming does wonders in the world". The input field is empty, and the output field displays "the longest word is: Programming".

**Questions**  
CMQ6.  
Write a program to print the longest word in the below text "Programming does wonders in the world".

**Test Cases**

**Code Editor:**

```
1 #include<stdio.h>
2 #include<string.h>
3 int main(){
4 char text[]="Programming does wonders in the world";
5 char *word = strtok(text, " ");
6 char longest_word[100]=" ";
7 while (word != NULL){
8 if (strlen(word)>strlen(longest_word)){
9 strcpy(longest_word, word);
10 }
11 word = strtok(NULL, " ");
12 }
13 printf("the longest word is:%s\n", longest_word);
14 return 0;
15 }
16
17
18
19
20
21
22
23
24
25
```

**Input:** Your Input Goes Here...!!!

**Output:** the longest word is: Programming

13.

The screenshot shows the SIMAIS C IDE interface. The top bar indicates the browser is 'Not secure' and the URL is '172.18.60.6/php\_c/home.php'. The left sidebar contains 'Questions' and 'Test Cases' sections. The main editor displays a C program that defines a 'student' struct and a 'displaystudent' function. The program is run, and the output is shown in a blue box on the right.

**Questions**  
CMQ8.  
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

**Test Cases**  
No Student 4 (Any details of student)  
No Student 5  
No Student 1( 62, 28)  
No Student A  
No Student 1( xxx, 28.2)

**Code:**

```
1. #include<stdio.h>
2. struct student{
3.     char name[50];
4.     int age;
5. };
6. void displaystudent(struct student student){
7.     printf("Name: %c\n",student.name);
8.     printf("age: %d\n",student.age);
9. }
10. int main(){
11.     struct student s1={"AAA",25};
12.     displaystudent(s1);
13.     return 0;
14. }
```

**Output:**

```
name: AAA
age: 25
```

14.

The screenshot displays the SIMATS C IDE interface. At the top, the browser address bar shows '172.18.60.6/php\_c/home.php'. The header includes the SIMATS logo and 'Saveetha School of Engineering'. On the right, a user profile for 'YOGESH KUMAR K' is visible. The main area is divided into 'Questions' and 'Test Cases' sections. The 'Questions' section contains a task: 'Write a program in C to check Armstrong and perfect numbers using the function.' It also provides 'Test Data': 'Input any number: 371' and 'Expected Output': 'The 371 is an Armstrong number. The 371 is not a Perfect number.' The 'Test Cases' section on the right lists several test cases, all marked as 'Pass'. The bottom section shows the C code being executed. The code defines two functions, 'checkarmstrong' and 'checkperfect', and a 'main' function that prompts the user for a number and checks it. The output of the program is displayed on the right, showing the input '371' and the resulting message: 'function: check armstrong and perfect number: input any number: the 371 is an armstrong number. the 371 is not a perfect number.'

Questions  
CHQ26

Write a program in C to check Armstrong and perfect numbers using the function.

Test Data :  
Input any number: 371  
Expected Output :  
The 371 is an Armstrong number.  
The 371 is not a Perfect number.

Test Cases

YOGESH KUMAR K  
192225005

CHQ26  
CHQ27  
CHQ28  
CHQ29  
CHQ30  
CHQ31  
CHQ32  
CHQ33  
CHQ34  
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CHQ95  
CHQ96  
CHQ97  
CHQ98  
CHQ99  
CHQ100

C Run Save Logout

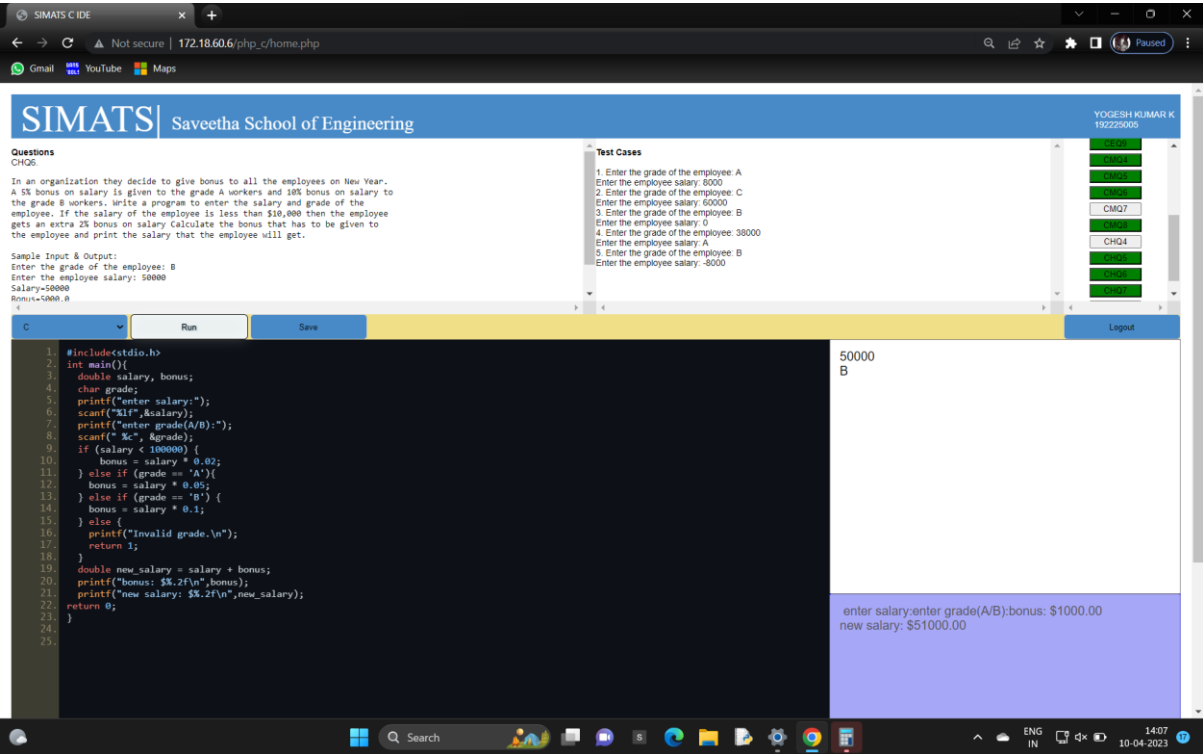
```
1. #include<stdio.h>
2. int checkarmstrong(int n1);
3. int checkperfect(int n1);
4. int main()
5. {
6.     int n1;
7.     printf("\n\n function: check armstrong and perfect number:\n");
8.     printf("\n");
9.     printf("input any number:");
10.    scanf("%d",&n1);
11.    if(checkarmstrong(n1))
12.    {
13.        printf(" the %d is an armstrong number.\n",n1);
14.    }
15.    else
16.    {
17.        printf(" the %d is not armstrong number.\n",n1);
18.    }
19.    if (checkperfect(n1))
20.    {
21.        printf("the %d is a perfect number.\n\n",n1);
22.    }
23.    else
24.    {
25.        printf("the %d is not a perfect number.\n\n",n1);
26.    }
27.    return 0;
28. }
29. int checkarmstrong( int n1)
30. {
31.     int ld,sum,num;
32.     num=n1;
33.     ld=num/10;
34.     sum=0;
35.     while(ld>0)
36.     {
37.         int rem=ld%10;
38.         sum+=rem*rem*rem;
39.         ld=ld/10;
40.     }
41.     if(sum==num)
42.     {
43.         return 1;
44.     }
45.     else
46.     {
47.         return 0;
48.     }
49. }
```

371

function: check armstrong and perfect number:  
input any number: the 371 is an armstrong number.  
the 371 is not a perfect number.

1407  
10-04-2023

15.



16.

The screenshot displays the SIMATS C IDE interface. The top bar shows the browser address bar with the URL `172.18.60.6/php_c/home.php`. The main header of the IDE is blue and contains the text "SIMATS | Saveetha School of Engineering" on the left and the user name "YOJESH KUMAR K" with the ID "192229005" on the right. Below the header, the interface is divided into three main sections: "Questions", "Test Cases", and a code editor.

**Questions Section:**

CHQ27.  
Write a program to search the given element using binary search method and display its position in a linear array.

Sample Input:  
Array of elements - {16, 18, 27, 16, 23, 21, 19}  
Element to search - 23

Sample Output:  
Given element 23 is found at 5 th position

**Test Cases Section:**

CHQ27  
CHQ4

**Code Editor:**

```
1 #include<stdio.h>
2 int main()
3 {
4     int c, first, last, middle, n, search, array[100];
5     printf("Enter number of elements\n");
6     scanf("%d",&n);
7     printf("Enter %d integers\n",n);
8     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)
18            first = middle + 1;
19        else if (array[middle] == search)
20        {
21            printf("Found at location %d\n",search,middle+1);
22            break;
23        }
24        else
25            last = middle - 1;
26        middle = ( first + last )/2;
27    }
28    if ( first > last)
29        printf("not found! %d is not present in the list.\n",search);
30    return 0;
31 }
```

**Output Console:**

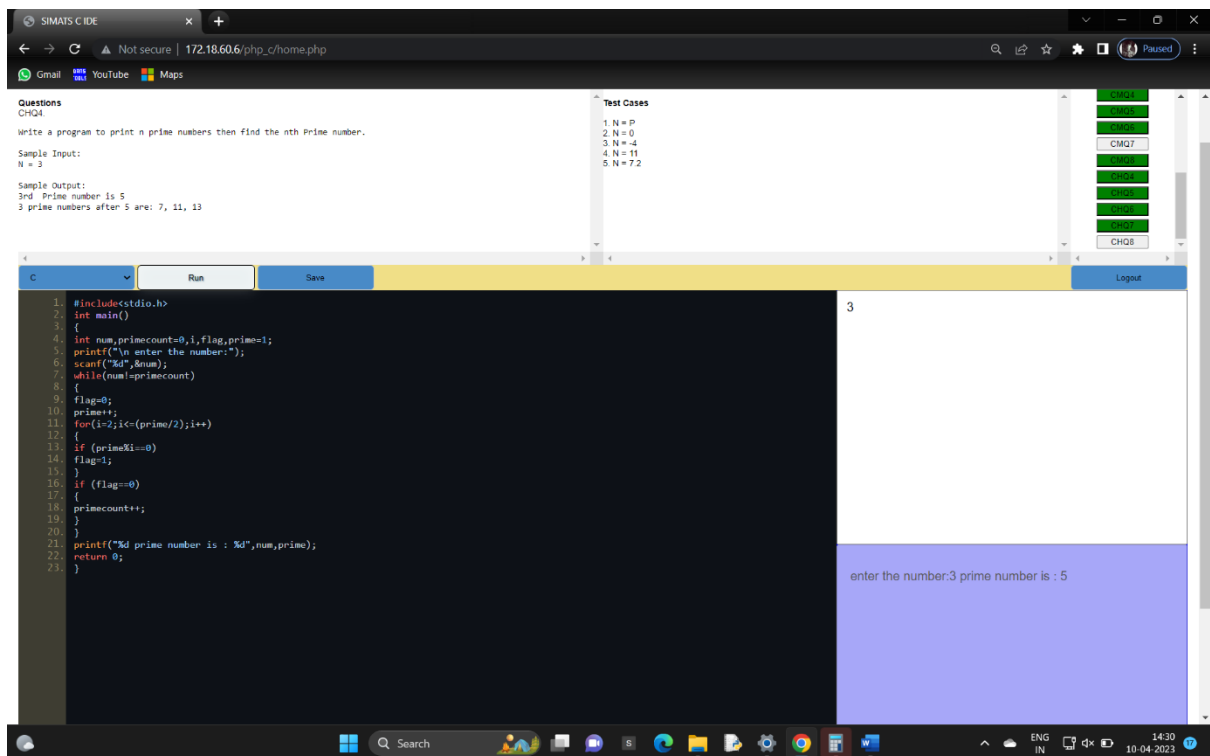
enter number of elements 7  
enter 7 integers  
16  
18  
27  
16  
23  
21  
19  
enter value to find 23

Enter number of elements  
enter 7 integers  
enter value to find  
not found! 23 is not present in the list.

The bottom of the image shows the Windows taskbar with the Start button, search bar, and various application icons. The system clock indicates the time is 14:08 on 10-04-2023.



17.



The screenshot shows the SIMAIS C IDE interface. The top bar indicates the browser is "Not secure" and the URL is "172.18.60.6/php\_c/home.php". The left sidebar contains "Questions" and "Test Cases". The main editor displays a C program to find the nth prime number. The program is running, and the output is displayed in a blue box.

**Questions**  
CHQ4  
Write a program to print n prime numbers then find the nth Prime number.  
Sample Input:  
N = 3  
Sample Output:  
3rd Prime number is 5  
3 prime numbers after 5 are: 7, 11, 13

**Test Cases**  
1. N = P  
2. N = 0  
3. N = 4  
4. N = 11  
5. N = 7.2

**Code:**

```
1. #include<stdio.h>
2. int main()
3. {
4.     int num,primecount=0,i,flag,prime=1;
5.     printf("\n enter the number:");
6.     scanf("%d",&num);
7.     while(num!=primecount)
8.     {
9.         flag=0;
10.        prime++;
11.        for(i=2;i<=(prime/2);i++)
12.        {
13.            if (prime%i==0)
14.            {
15.                flag=1;
16.            }
17.        }
18.        if (flag==0)
19.        {
20.            primecount++;
21.        }
22.        printf("%d prime number is : %d",num,prime);
23.    }
24. }
```

**Output:**  
3  
enter the number:3 prime number is : 5