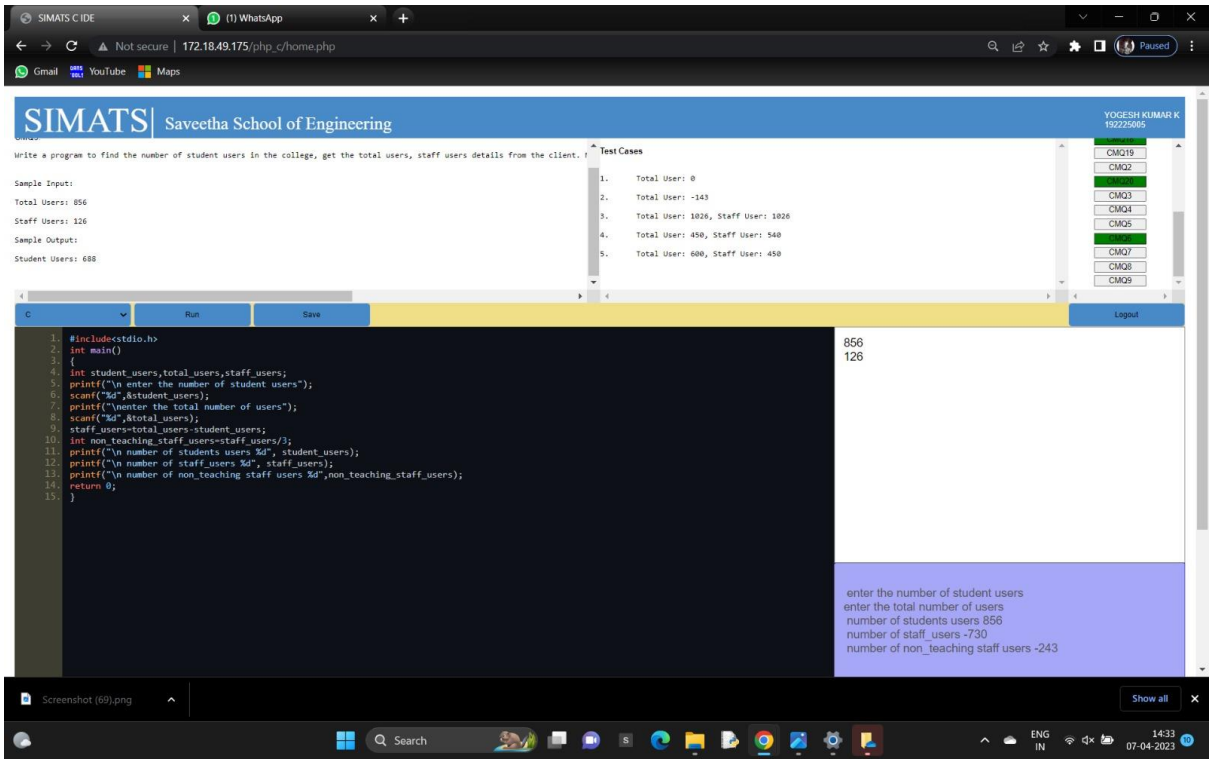
DAY-4 C PROGRAMMING

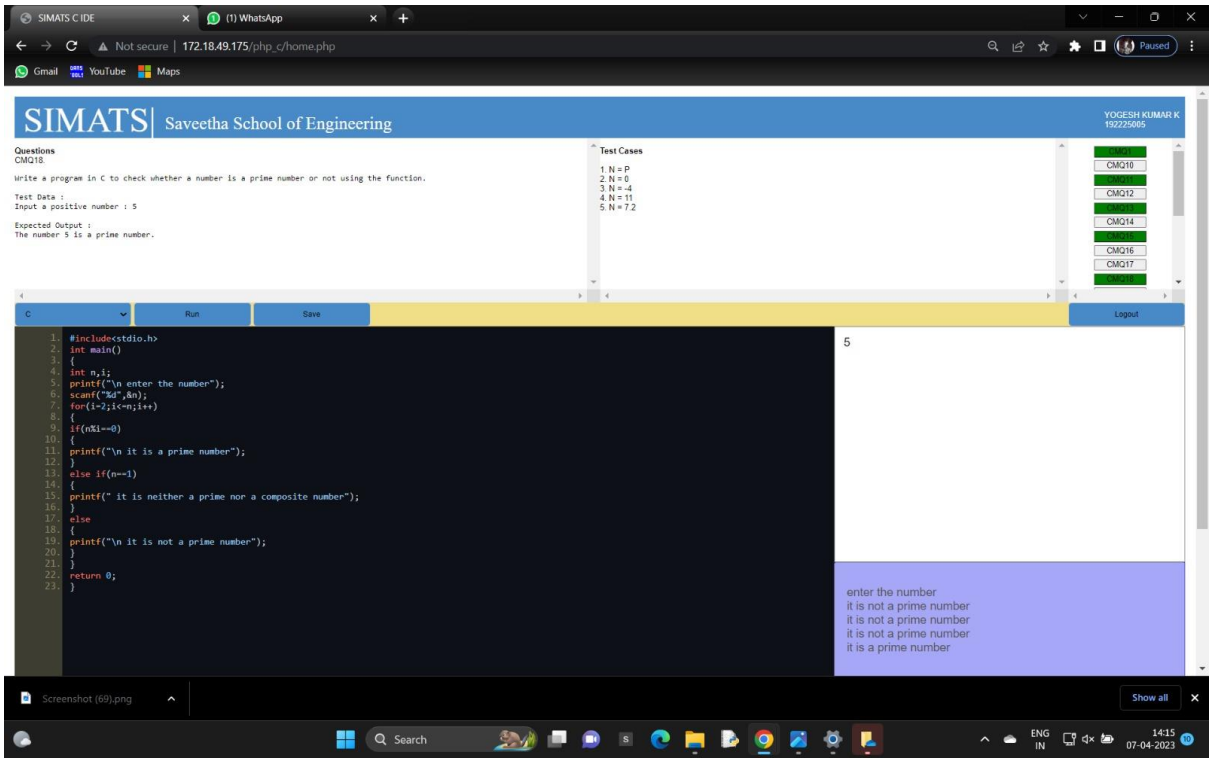
YOGESH KUMAR K

192211012

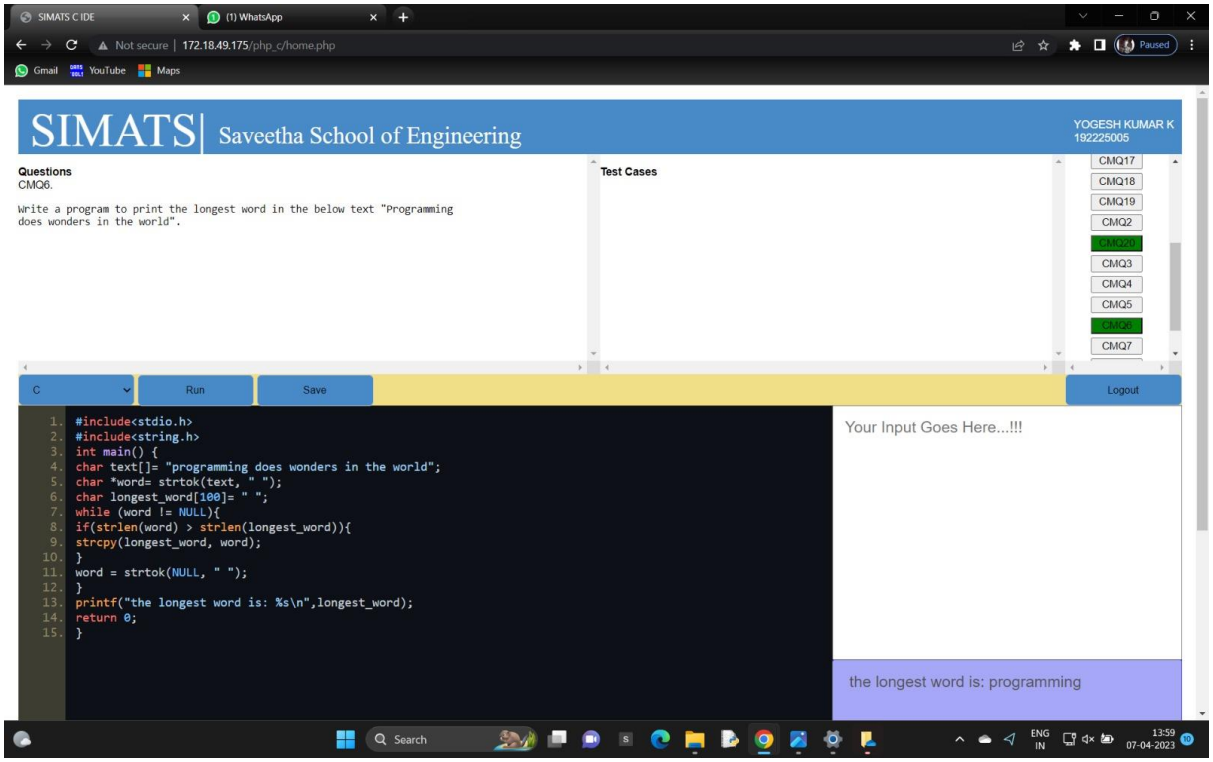
1.



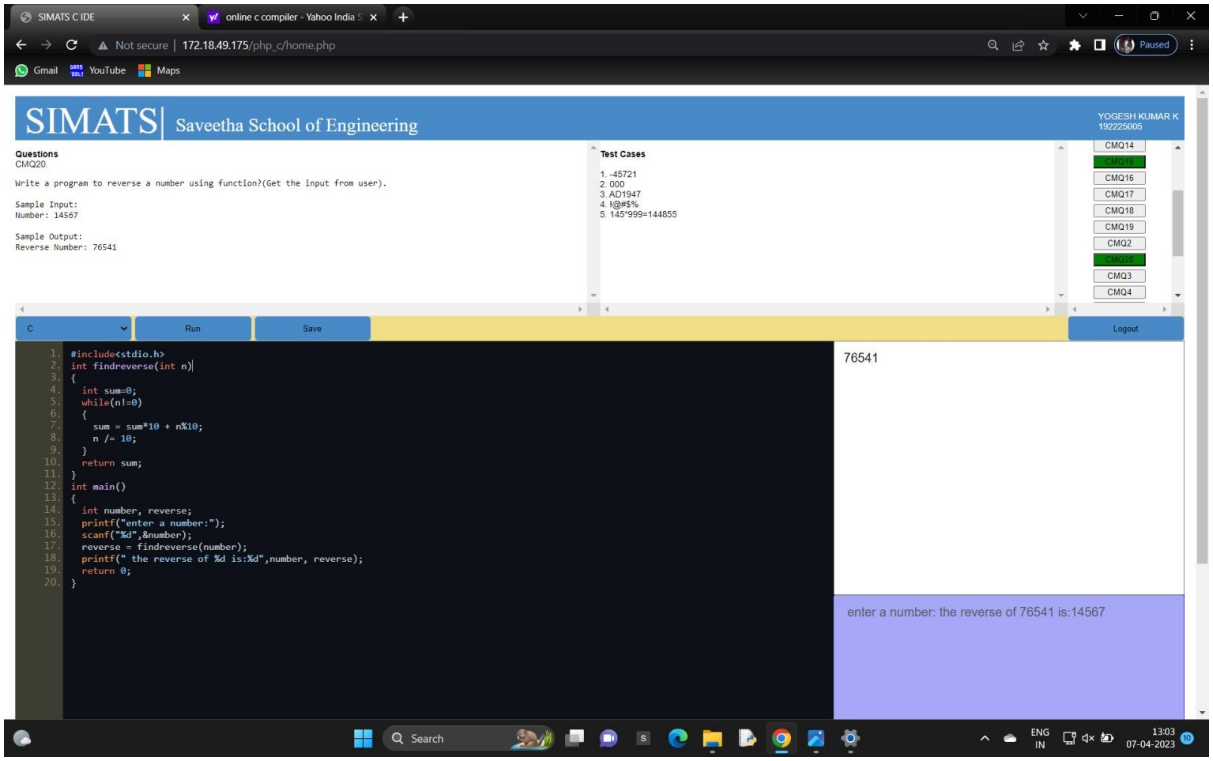
2.


SIMATS C IDE
(1) WhatsApp
Not secure | 172.18.49.175/php_c/home.php
Gmail
YouTube
Maps
Paused
SIMATS | Saveetha School of Engineering
YOGESH KUMAR K
192225005
Questions
CMQ18.
Write a program in C to check whether a number is a prime number or not using the function.
Test Data :
Input a positive number : 5
Expected Output :
The number 5 is a prime number.
Test Cases
1. N = P
2. N = 0
3. N = -4
4. N = 11
5. N = 7.2
CMQ10
CMQ12
CMQ14
CMQ16
CMQ17
C
Run
Save
Logout
#include<stdio.h>
int main()
{
int n,i;
printf("\n enter the number");
scanf("%d",&n);
for(i=2;i<=n;i++)
{
if(n%i==0)
{
printf("\n it is a prime number");
}
else if(n==1)
{
printf(" it is neither a prime nor a composite number");
}
else
{
printf("\n it is not a prime number");
}
}
return 0;
}
5
enter the number
it is not a prime number
it is not a prime number
it is not a prime number
it is a prime number
Screenshot (69).png
Show all
Search
ENG
IN
14:15
07-04-2023

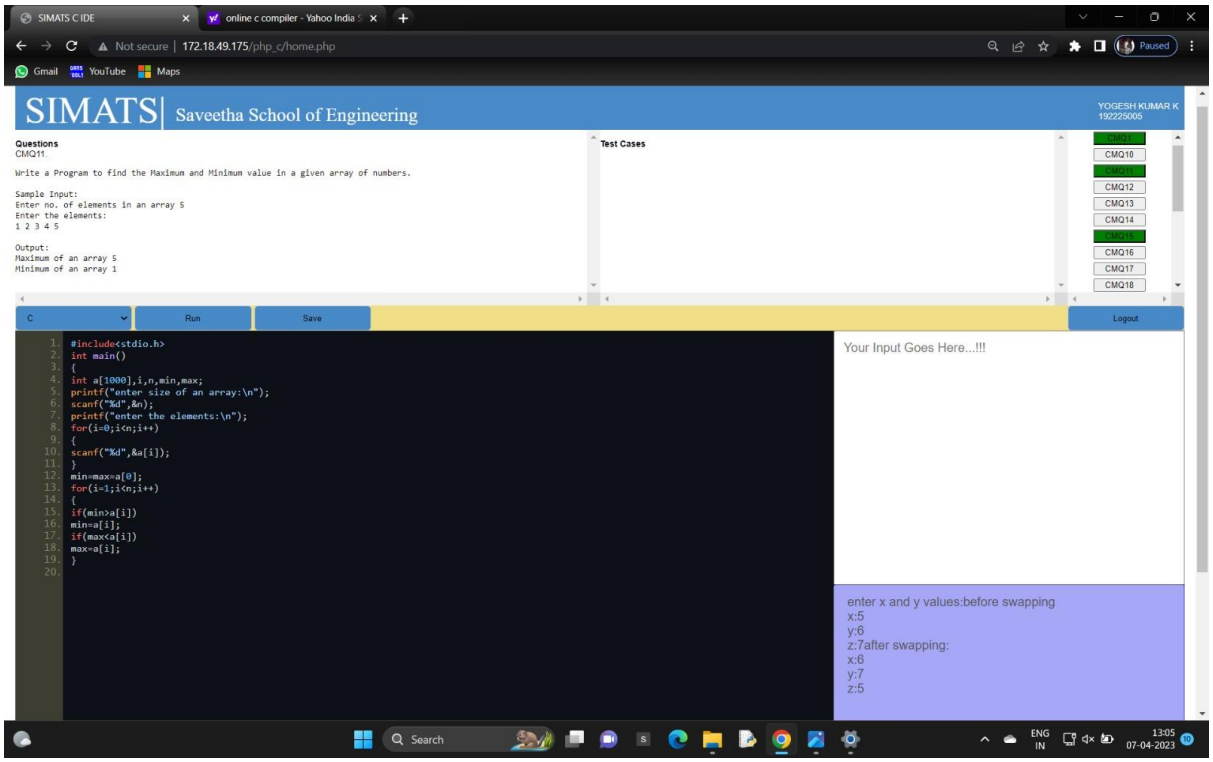
3.


SIMATS C IDE
(1) WhatsApp
Not secure | 172.18.49.175/php_c/home.php
Gmail
YouTube
Maps
Paused
SIMATS | Saveetha School of Engineering
YOGESH KUMAR K
192225005
Questions
CMQ6.
Write a program to print the longest word in the below text "Programming does wonders in the world".
Test Cases
CMQ17
CMQ18
CMQ19
CMQ2
CMQ20
CMQ3
CMQ4
CMQ5
CMQ6
CMQ7
C
Run
Save
Logout
#include<stdio.h>
#include<string.h>
int main() {
char text[]= "programming does wonders in the world";
char *word= strtok(text, " ");
char longest_word[100]= " ";
while (word != NULL){
if(strlen(word) > strlen(longest_word)){
strcpy(longest_word, word);
}
word = strtok(NULL, " ");
}
printf("the longest word is: %s\n",longest_word);
return 0;
}
Your Input Goes Here...!!!
the longest word is: programming
Search
ENG
IN
13:59
07-04-2023

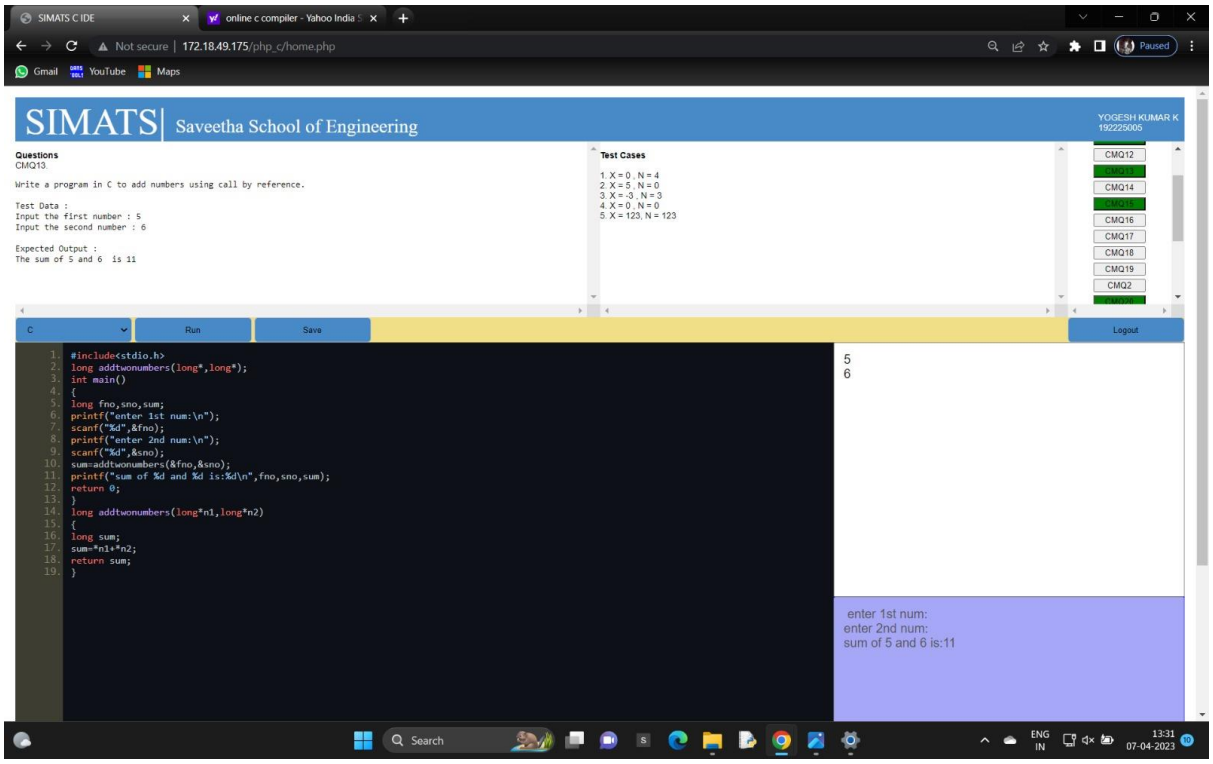
4.


SIMATS C IDE
online c compiler - Yahoo India S
Not secure | 172.18.49.175/php_c/home.php
Gmail YouTube Maps
SIMATS | Saveetha School of Engineering
YOGESH KUMAR K
192229005
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
CMQ14
CMQ15
CMQ16
CMQ17
CMQ18
CMQ19
CMQ2
CMQ20
CMQ3
CMQ4
C
Run
Save
Logout
#include<stdio.h>
int findreverse(int n)
{
int sum=0;
while(n!=0)
{
sum = sum*10 + n%10;
n /= 10;
}
return sum;
}
int main()
{
int number, reverse;
printf("enter a number:");
scanf("%d",&number);
reverse = findreverse(number);
printf(" the reverse of %d is:%d",number, reverse);
return 0;
}
76541
enter a number: the reverse of 76541 is:14567
Search
ENG
IN
13:03
07-04-2023

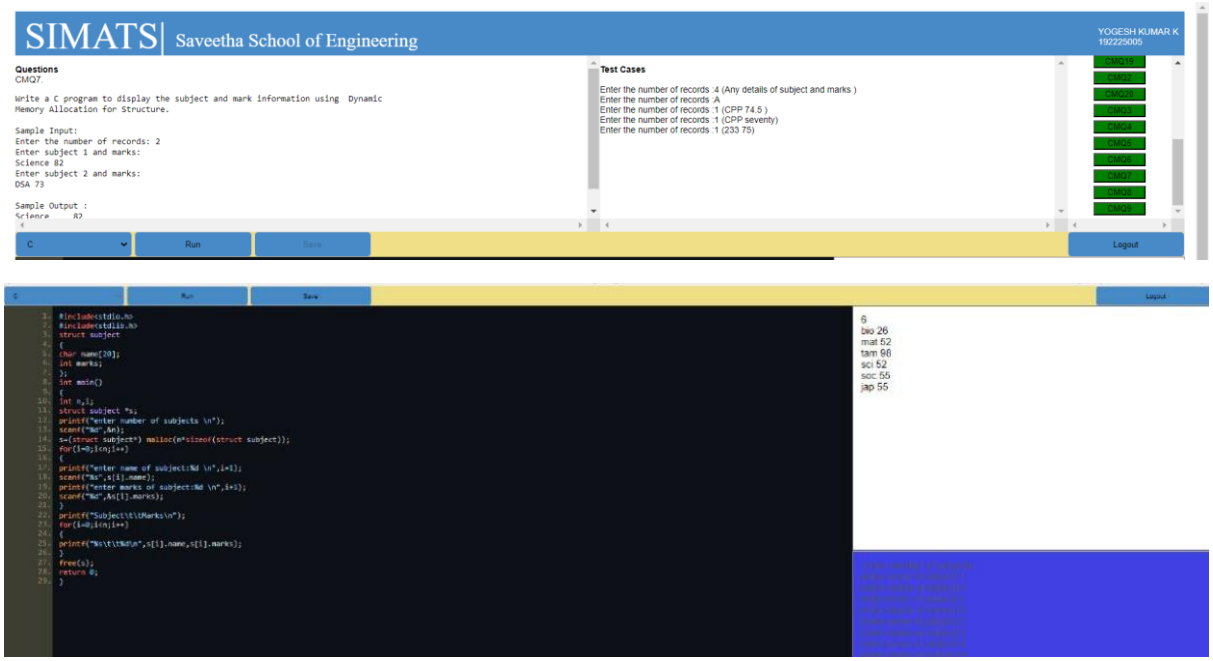
5.


SIMATS C IDE
online c compiler - Yahoo India S
Not secure | 172.18.49.175/php_c/home.php
Gmail YouTube Maps
SIMATS | Saveetha School of Engineering
YOGESH KUMAR K
192229005
Questions
CMQ11.
Write a Program to find the Maximum and Minimum value in a given array of numbers.
Sample Input:
Enter no. of elements in an array 5
Enter the elements:
1 2 3 4 5
Output:
Maximum of an array 5
Minimum of an array 1
Test Cases
CMQ1
CMQ10
CMQ11
CMQ12
CMQ13
CMQ14
CMQ15
CMQ16
CMQ17
CMQ18
C
Run
Save
Logout
#include<stdio.h>
int main()
{
int a[1000],i,n,min,max;
printf("enter size of an array:\n");
scanf("%d",&n);
printf("enter the elements:\n");
for(i=0;i<n;i++)
{
scanf("%d",&a[i]);
}
min=max=a[0];
for(i=1;i<n;i++)
{
if(min>a[i])
min=a[i];
if(max<a[i])
max=a[i];
}
Your Input Goes Here...!!!
enter x and y values:before swapping
x:5
y:6
z:7after swapping:
x:6
y:7
z:5
Search
ENG
IN
13:05
07-04-2023

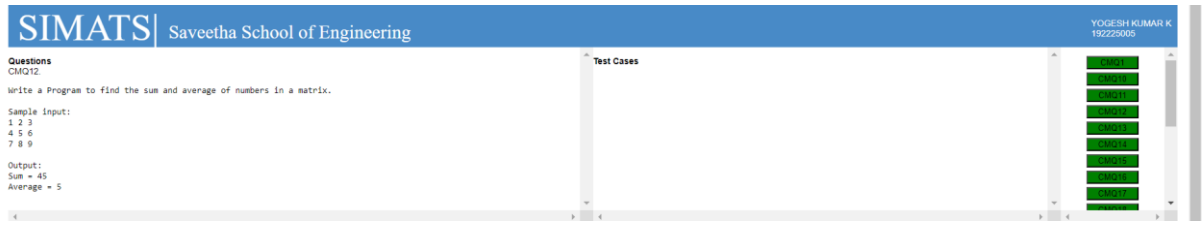
6.


SIMATS C IDE
online c compiler - Yahoo India
Not secure | 172.18.49.175/php_c/home.php
Gmail
YouTube
Maps
SIMATS | Saveetha School of Engineering
YOGESH KUMAR K
192225005
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
CMQ12
CMQ13
CMQ14
CMQ15
CMQ16
CMQ17
CMQ18
CMQ19
CMQ2
C
Run
Save
Logout
#include<stdio.h>
long addtwonumbers(long*,long*);
int main()
{
long fno,sno,sum;
printf("enter 1st num:\n");
scanf("%d",&fno);
printf("enter 2nd num:\n");
scanf("%d",&sno);
sum=addtwonumbers(&fno,&sno);
printf("sum of %d and %d is:%d\n",fno,sno,sum);
return 0;
}
long addtwonumbers(long*n1,long*n2)
{
long sum;
sum=*n1+*n2;
return sum;
}
5
6
enter 1st num:
enter 2nd num:
sum of 5 and 6 is:11
Search
ENG
IN
13:31
07-04-2023

7.


SIMATS | Saveetha School of Engineering
YOGESH KUMAR K
192225005
Questions
CMQ7.
Write a C program to display the subject and mark information using Dynamic Memory Allocation for Structure.
Sample Input:
Enter the number of records: 2
Enter subject 1 and marks:
Science 82
Enter subject 2 and marks:
DSA 73
Sample Output :
Test Cases
Enter the number of records :4 (Any details of subject and marks)
Enter the number of records :A
Enter the number of records :1 (CPP 74.5)
Enter the number of records :1 (CPP seventy)
Enter the number of records :1 (233 75)
CMQ10
CMQ11
CMQ12
CMQ3
CMQ4
CMQ5
CMQ6
CMQ7
CMQ8
CMQ9
C
Run
Logout
#include<stdio.h>
#include<stdlib.h>
struct subject
{
char name[20];
int marks;
};
int main()
{
int n,i;
struct subject *s;
printf("enter number of subjects \n");
scanf("%d",&n);
s=(struct subject*) malloc(n*sizeof(struct subject));
for(i=0;i<n;i++)
{
printf("enter name of subject:%d \n",i+1);
scanf("%s",s[i].name);
printf("enter marks of subject:%d \n",i+1);
scanf("%d",&s[i].marks);
}
printf("Subject\t\tMarks\n");
for(i=0;i<n;i++)
{
printf("%s\t\t%d\n",s[i].name,s[i].marks);
}
free(s);
return 0;
}
6
bio 26
mat 52
tam 98
sci 52
soc 55
jap 55

7.



C Run Save

```c
#include<stdio.h>
int main(){
int matrix[100][100],rows,cols;
printf("Enter the number of rows:");
scanf("%d",&rows);
printf("Enter the number of columns:");
scanf("%d",&cols);
printf("Enter the elements in the matrix:");
for(int i=0;i<rows;i++){
for(int j=0;j<cols;j++){
scanf("%d",&matrix[i][j]);
}
}
//sum of matrix numbers
```