C-PROGRAMMING

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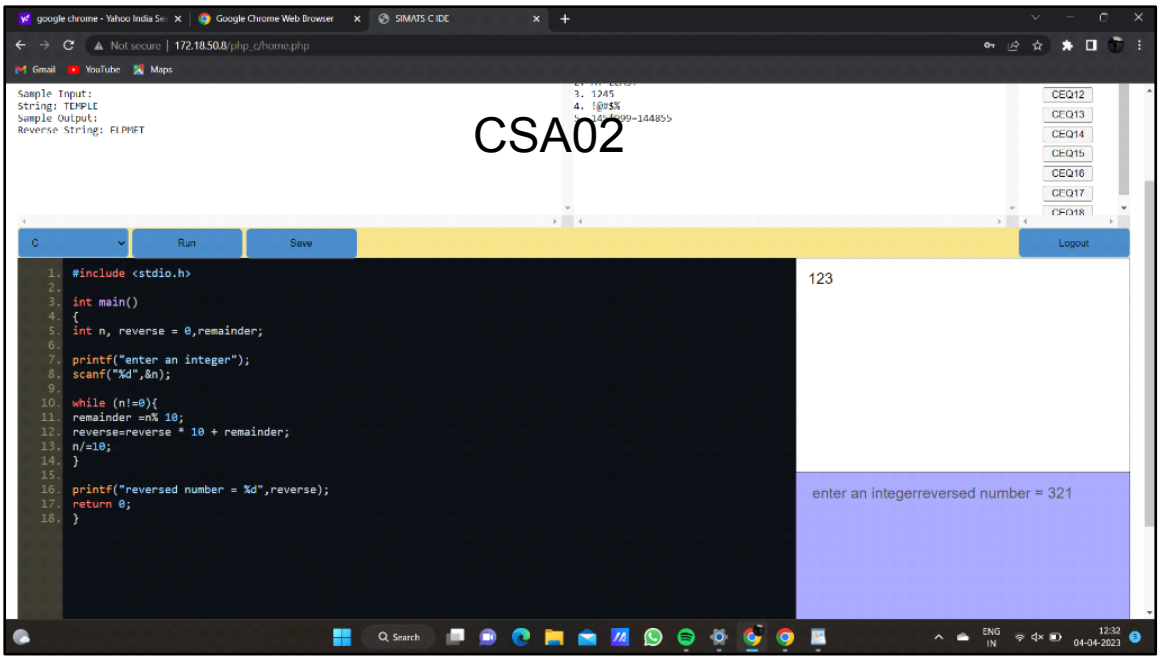
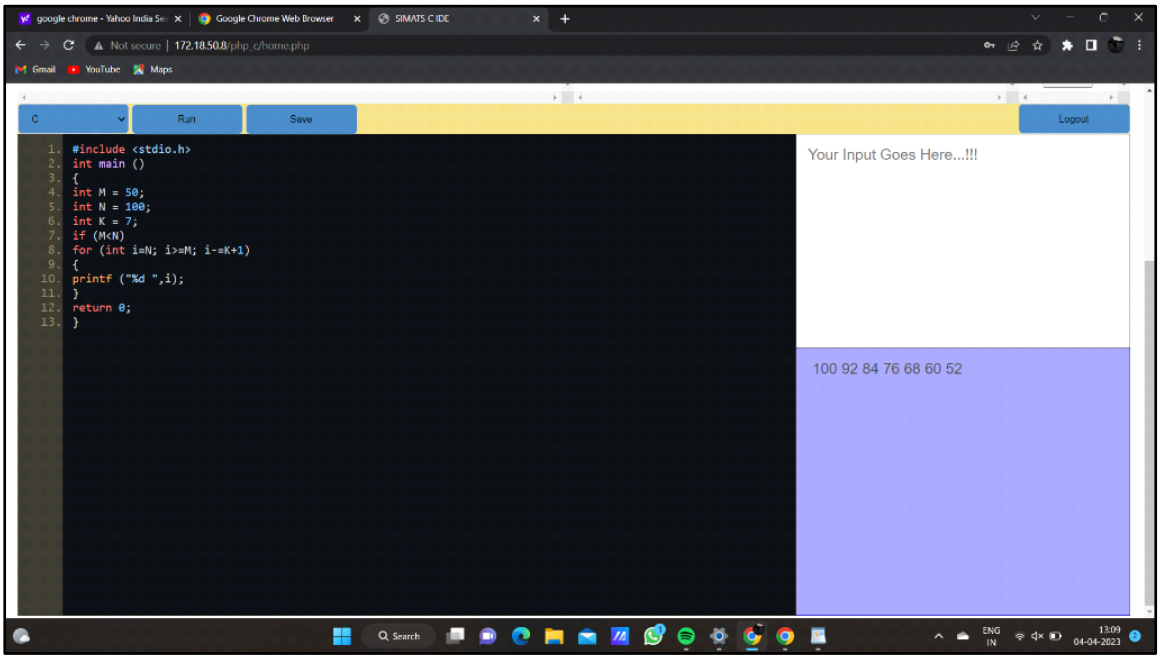
CEQ1

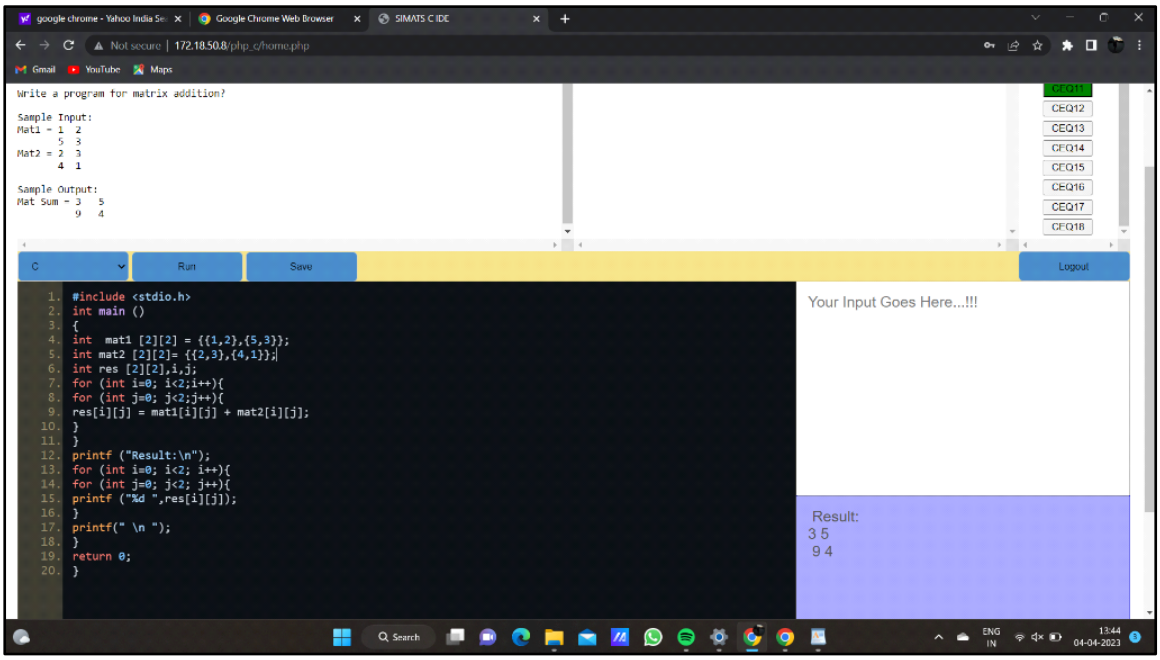
CSA02



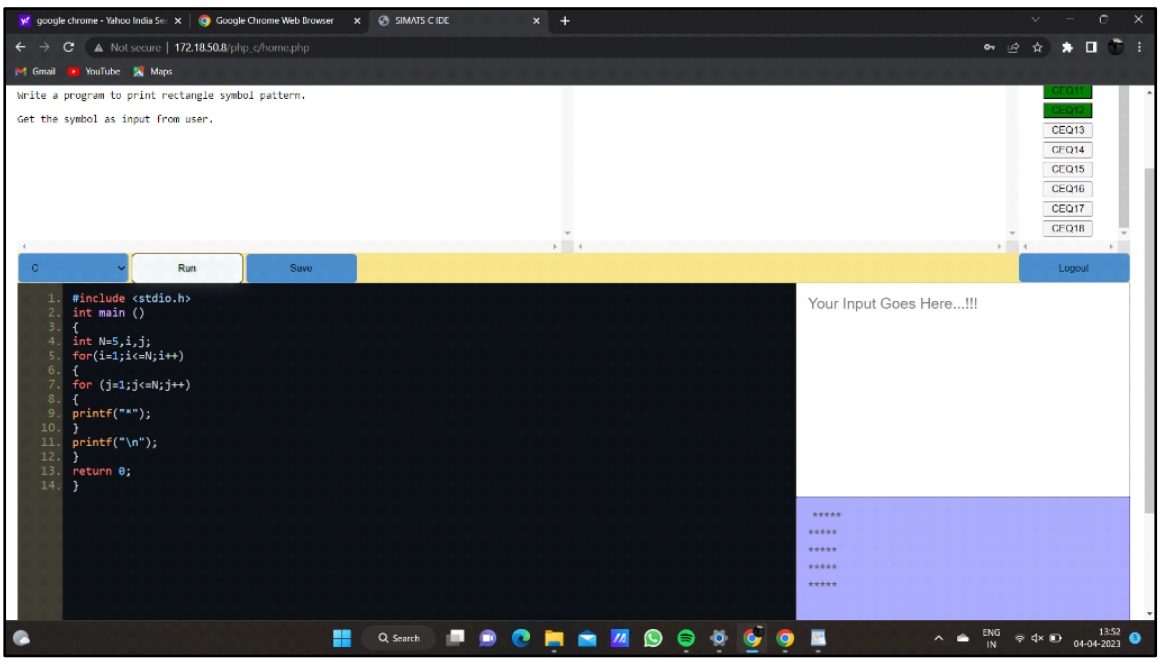
CEQ10



CEQ11



CEQ12



Write a program for matrix multiplication?

Sample Input:
Mat1 = 1 2
       5 3
Mat2 = 2 3
       4 1

Sample Output:
Mat Sum = 10 5
          22 18

C | Run | Save

```c
#include <stdio.h>
int main() {
int a[2][2]={{1,2},{5,3}};
int b[2][2]={{2,3},{4,1}};
int c[2][2]={0};
for (int i=0; i<2; i++)
        for (int j=0; j<2; j++)
            for (int k=0; k<2; k++)
                c[i][j]+=a[i][k]*b[k][j];
    printf("a*b= \n");
    for (int i=0; i<2; i++) {
        for (int j=0; j<2; j++)
            printf(" %d ", c[i][j]);
        printf(" \n");
}
  return 0;
}
```

Your Input Goes Here...!!

a+b=
9 7
14 12

```c
#include <stdio.h>
#include<string.h>
#define max_names 100
#define max_name_length 50

int main() {
char names [max-names]
[max_name_length];
int n;
 printf("enter the number of names:");
scanf("%d",&n);
printf("enter%d names:\n",n);
for9int i=0;i<n:i++){
for(intj=0;j<n-i-1;j++){
if(strcmp(names[j],names[j+1])>0){
chartemp[max_name_length];
strcpy(temp,names[j]);
strcpy(names[j],names[j+1]);
strcpy(names[j+1],temp);
}
}
]
printf('\nnames in ascending alphabetical order:\n");
for(int i=0;i<n;i++);
printf("%s\n",names[i]);
return 0;
}
```

Your Input Goes Here...!!!

<pre>ExecutionFolder/192211166.c: In function 'main':
ExecutionFolder/192211166.c:7:13: error: 'max' undeclared (first use in this function)
    7 | char names [max-names]
      | ^~~
ExecutionFolder/192211166.c:7:13: note: each undeclared identifier is reported only once for each function it appears in
ExecutionFolder/192211166.c:7:17:

Run Save Logout

```c
#include<stdio.h>
#include<ctype.h>
int main() {
char s[100];
int count_alpha =0,count_digit=0,count_special=0;
printf("enter a string: ");
fgets(s,100,stdin);
for(int i=0; s[i] !='\0'; i++) {
if (isalpha(s[i]))
count_alpha++;
if(isdigit(s[i]))
count_digit++;
else if (!isspace(s[i]))
count_special++;
}
printf("number of alphabets:%d\n",count_alpha);
printf("number of digits:%d\n",count_digit);
printf("number of special:%d\n",count_special);

return 0;
}
```

```
abc!@ 12 cd 1212
```

```
enter a string: number of alphabets:0
```

CE015

```
Write a program to print the following pattern

Sample Input:
Enter the number to be printed: 1
Max Number of time printed: 3
1
1 1
1 1 1
1 1
1
```

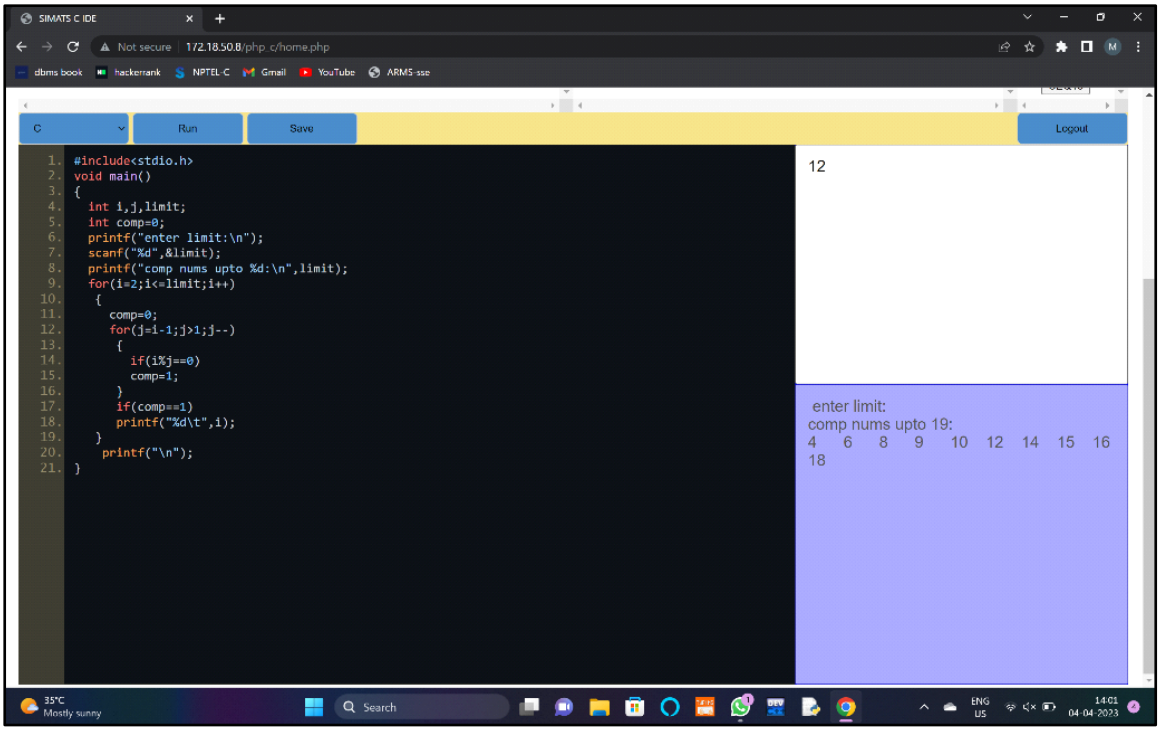
C Run Save

```c
#include <stdio.h>
int main()  {
  int size = 3;
  for (int i=1; i<= size; i++)  {
    for (int j=0; j<i; j++)  {
      printf(" 1 ");
    }
    printf(" \n ");
  }
  for (int i=1; i<=size-1; i++)  {
    for (int j=0; j<size-i; j++)  {
      printf(" 1 ");
    }
    printf(" \n ");
  }
  return 0;
```

Your Input Goes Her

```
1
1 1
1 1 1
```

CE017



CE018