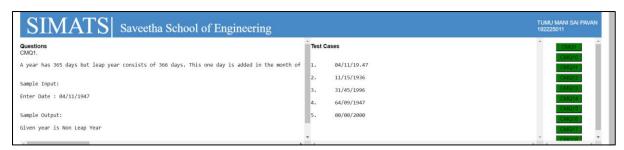
Name: shreyas

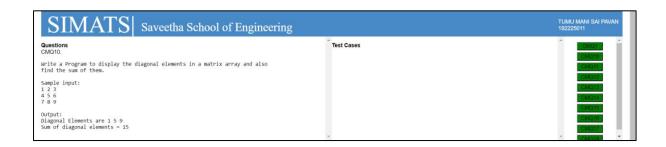
Reg No: 192212014

QN:1



```
#includecstdio.h>
2. int main()
3. {
4. int year;
5. printf("finer the Year : ");
6. scanf("%a", 8year);
7. if(year%400=0 && year%100=0){
8. printf("Given year is Leap Year");
9. }
10. else if(year%4=0 && year%10!=0){
11. printf("Given year is Leap Year");
12. }
13. else{
14. printf("Given year is Non Leap Year");
15. }
16. }

Enter the Year : Given year is Non Leap Year
```



```
1. #include<stdio.h>
2. int main()
3. {
4. int num[3][3]={{1,2,3},{4,5,6},{7,8,9}};
5. int j,j.sum=0;
printf("lagonal Elements are ");
7. for(i=0;i<3;i++){
8. for(j=0;i<3;i++){
10. printf("Xd ",num[i][j]);
11. sum+=num[i][j];
12. }
13. }
14. }
15. printf("\nSum of diagonal elements = %d",sum);
16. }

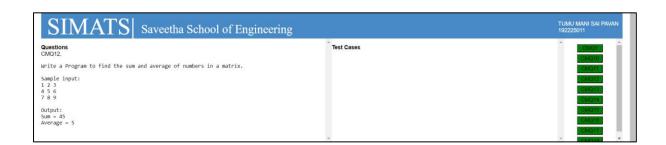
Diagonal Elements are 15 9
Sum of diagonal elements = 15
```



```
#includecstdio.h>
int main()
{
  int num[]={1,2,3,4,5};
  int m=sizeof(num)/sizeof(num[e]);
  int i;
  int max=num[e];
  int max=num[e];
  int max=num[i];
  for(i=e); kn; k++){
    if(num[i]>max){
      max=num[i];
    }
    else if(num[i](min){
      min=num[i];
    }
    printf("Maximum of an array : %d", max);
    printf("Minimum of an array : %d", min);
}

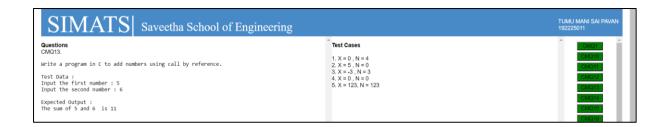
Maximum of an array : 1

Maximum of an array : 1
```



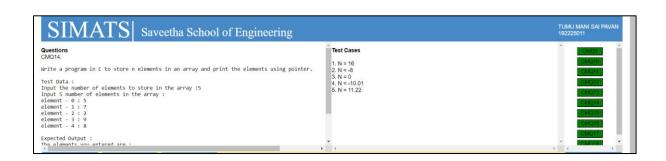
```
1. #include<stdio.h>
int main()
{
    int mun(3)[3]={(1,2,3),{4,5,6},{7,8,9}};
    int i,j,sum=0;
    for(i=0;i<3;i+){
        for(j=0;i<3;j+){
        sum+=nun(i][j];
        }
        printf("\nsum = %d\n",sum);
        printf("Average = %d",sum/9);
}

Sum = 45
        Average = 5
```



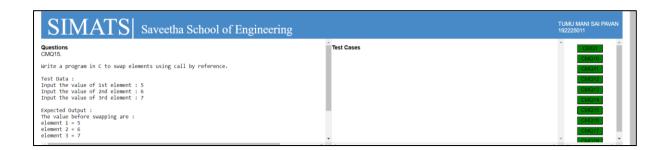
```
#includecstdio.h>
int main()
{
    int a,b;
    printf("Input the first number: ");
    scanf("%d", &a);
    printf("Input the second number: ");
    scanf("%d", &b);
    printf("Ne");
    printf("Ne");
    printf("The sum of %d and %d is %d",a,b,a+b);
}

Input the first number: Input the second number:
    The sum of 5 and 6 is 11
```



```
#includecstdio.h>
int main()
{
int main()
{
int n;
printf("Number of elements you have to store : ");
scanf("%d", &n);
int num[n];
int i;
for(i=0;i<n;i++){
printf("Element - %d : ",i);
scanf("%d",&num[i]);
}
int mszizeof(num)/sizeof(num[0]);
int *ptr=num;
printf("Nihe elements you entered are : \n");
for(i=0;i<n;i++){
printf("Element - %d : %d\n",i,*(ptr+i));
}

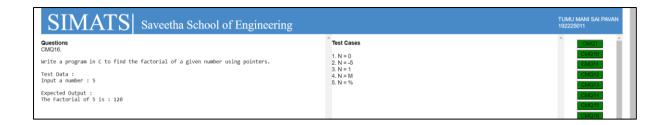
Number of elements you have to store :
Element - 0 : Element - 1 : Element - 2 :
Element - 3 : Element - 4 :
The elements you entered are :
Element - 0 : 5
Element - 0 : 5
Element - 1 : 7
Element - 2 : 2
```



```
int main()

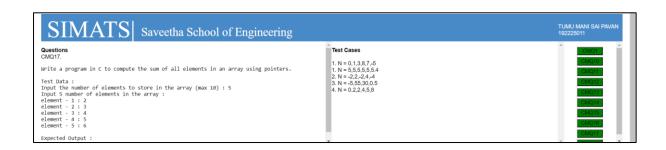
printf("Input the value of %d element : ",i);
scaraf(%d", %num[i]);
printf("The value before swapping are : \n");
for(ise);i3;i+){
printf("element xd = %d\n",i,num[i]);
}
int a=num(0),b=num(1),c=num[2];
num(0)=e;
num(1)=e;
num(2)=e;
printf("The value after swapping are :\n");
for(i=0;i3;i+){
printf("element xd = %d\n",i, num[i]);
}

Input the value of 0 element :
Input the value of 1 element :
Input the value of 2 element :
The value before swapping are :
element 0 = 5
element 1 = 6
element 0 = 7
element 1 = 6
element 1 = 7
element 1 = 5
element 1 = 5
element 2 = 6
```



```
#include<stdio.h>
int main()
{
    int num;
    printf("Input a number : ");
    scanf("%d", &num);
    int i,sum=1;
    for(i=1;3c=num;i++){
        sum"=1;
    }
    printf("\nThe Factorial of %d is : %d", num, sum);
    }

Input a number :
    The Factorial of 5 is : 120
```



```
#includecstdio.h>
int main()
{
    int main()
    {
        int n;
        printf("Input number of elements:");
        scanf("Xd", &n);
        int num[n];
        int num[n];
        int num[n];
        int summel;
        for(i=0;i:n;i++){
        printf("element - Xd: ",i);
        scanf("Xd", &num[i]);
        int summel;
        for(i=0;i:n;i++){
        sum+("(pt+4));
        }
        printf("\nThe sum of array is: Xd", sum);
        }
        lnput number of elements: Element - 0:
        Element - 1: Element - 2: Element - 3:
        Element - 4:
        The sum of array is: 20
```

SIMATS Saveetha School of Engineering		TUMU MANI SAI PAVAN 192225011
Questions CMQ18.	Test Cases	CMQ1
Write a program in C to check whether a number is a prime number or not using the function.	1. N = P 2. N = 0	CMQ11
Test Data : Input a positive number : 5	3. N = -4 4. N = 11 5. N = 7.2	CONSTR CONSTR CONSTR CONSTR CONSTR
Expected Output : The number 5 is a prime number.		CMG15

```
int func(int);
int func(int);
int func(int a){
   if(aX2|=0 || aX3|=0 || aX4|=0 || aX5|=0){
    return a;
   }
} else{
   return 0;
}}
int main()
{
   int num;
   printf("Input a positive number : ");
   scanf("Xa", &num);
   int result=func(num);
   if(result==0){
        printf("The number %d is not prime number",num);
   }
} else{
   printf("The number %d is a prime number",num);
}
}
```