

SIMATS C IDE

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Sample Output:

Consonants: n g n r n g

Vowels: e i e ei

C

Run

Save

```
1. #include<stdio.h>
2. int main()
3. {
4. char c;
5. int lowercase_vowel, uppercase_vowel;
6. printf("enter an alphabet:");
7. scanf("%c",&c);
8. lowercase_vowel=(c=='a' || c=='e' || c=='i' || c=='o' || c=='u');
9. uppercase_vowel=(c=='A' || c=='E' || c=='I' || c=='O' || c=='U');
10. if(lowercase_vowel || uppercase_vowel)
11. printf("%c is an vowel",c);
12. else
13. printf("%c is an consonant",c);
14. return 0;
15. }
16.
17.
18.
19.
20.
```



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Run

Save

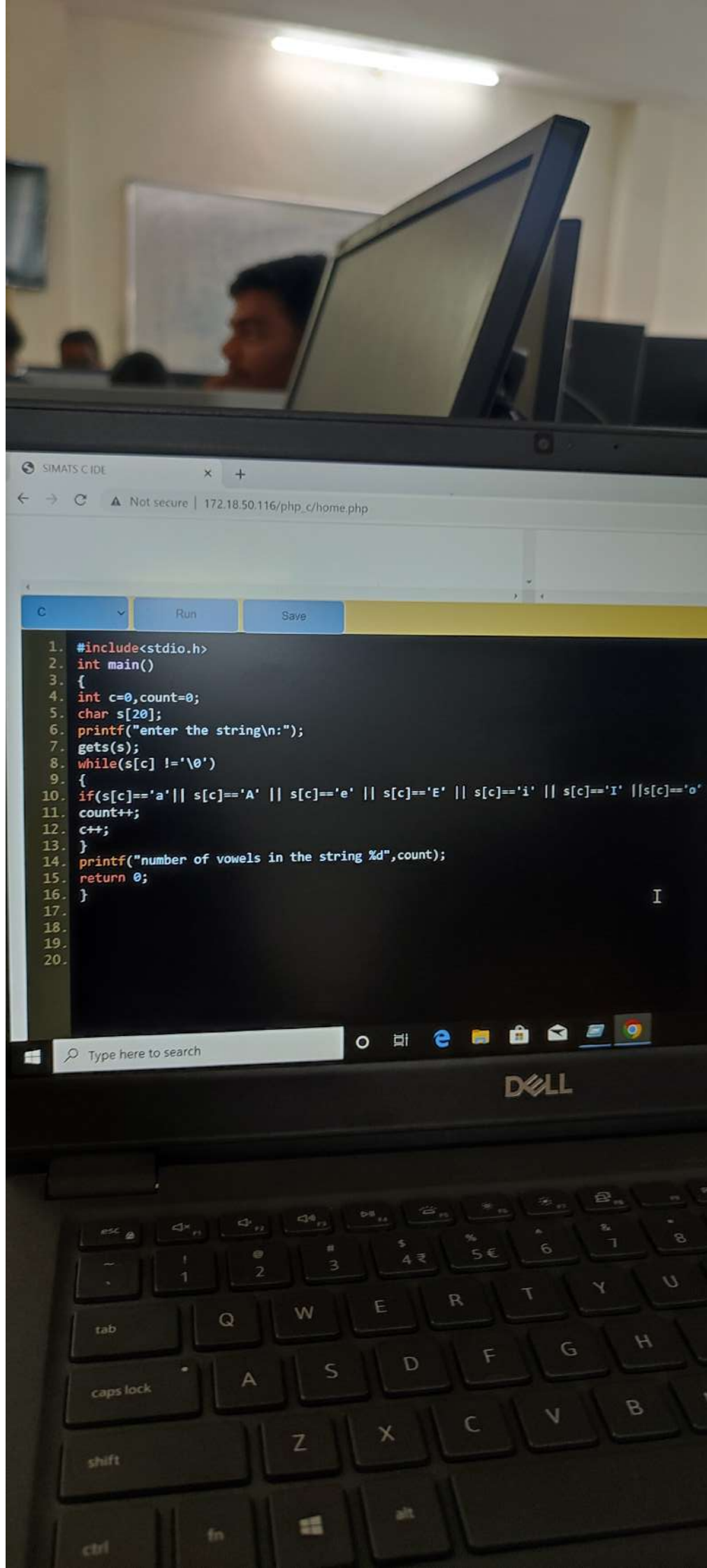
```
1. #include<stdio.h>
2. int main()
3. {
4.     int i,j,n;
5.     printf("enter number of rows to print hollow square:");
6.     scanf("%d",&n);
7.     for(i=1;i<=n;i++)
8.     {
9.         for(j=1;j<=n;j++)
10.        {
11.            if(i==1||i==n||j==n)
12.            {
13.                printf("#");
14.            }
15.            else
16.            {
17.                printf(" ");
18.            }
19.        }
20.        printf("\n");
21.    }
22.    return 0;
23. }
```



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```
1. #include<stdio.h>
2. int main()
3. {
4.     int i,num,sum=0;
5.     printf("enter any number to check prefect number:");
6.     scanf("%d",&num);
7.     for(i=1;i<=num/2;i++)
8.     {
9.         if (num%i==0)
10.        {
11.            sum+=i;
12.        }
13.    }
14.    if(sum==num&&num>0)
15.    {
16.        printf("%d is a PERFECT NUMBER",num);
17.    }
18.    else
19.    {
20.        printf("%d is NOT PERFECT NUMBER",num);
    }
    return 0;
}
```



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```
1. #include<stdio.h>
2. int main()
3. {
4.     int num,i;
5.     printf("enter the positive number:");
6.     scanf("%d",&num);
7.     printf("factors of %d are:",num);
8.     for(i=1;i<=num;++i)
9.     {
10.        if(num%i==0)
11.        {
12.            printf("%d",i);
13.        }
14.    }
15.    return 0;
16. }
```

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```
1. #include<stdio.h>
2. int main()
3. {
4.     int year;
5.     printf("enter the year:");
6.     scanf ("%d",&year);
7.     if (year % 400==0)
8.     {
9.         printf("%d is a leap year.",year);
10.    }
11.    else if (year % 100 == 0)
12.    {
13.        printf("%d is not a leap year.",year);
14.    }
15.    else if(year %4==0)
16.    {
17.        printf("%d is a leap year.",year);
18.    }
19.    else
20.    {
21.        printf("%d is not a leap year.",year);
22.    }
23.    return 0;
24. }
```

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C

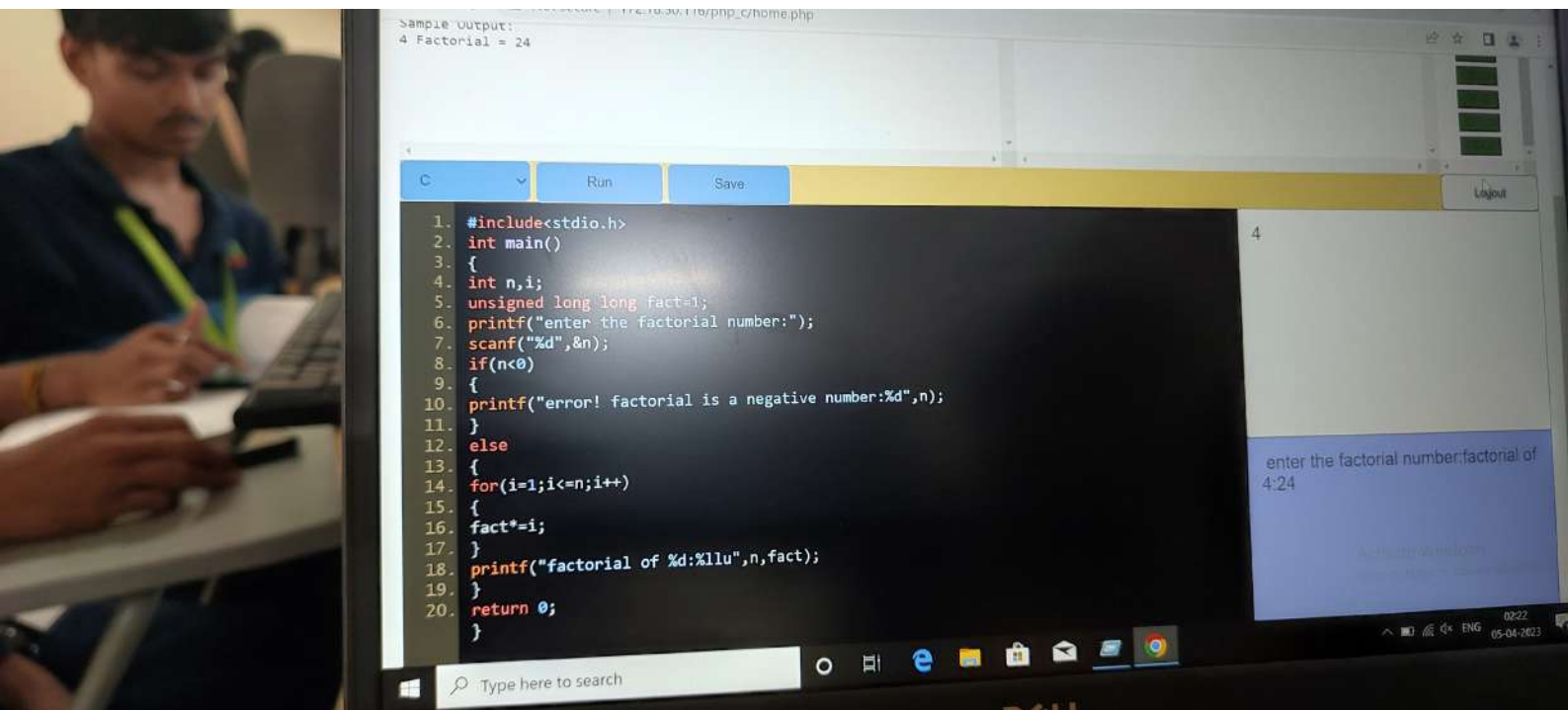
Run

Save

```
1. #include<stdio.h>
2. int main()
3. {
4.     int a[25],n,i;
5.     float mean=0.0,sum=0.0;
6.     printf("enter the number of terms:");
7.     scanf("\n enter the number:\n");
8.     for(i=1;i<=n;i++)
9.     {
10.        scanf("%d",&a[i]);
11.    }
12.    for(i=1;i<=n;i++)
13.    {
14.        sum=sum+a[i];
15.    }
16.    printf("\n Mean of the entered numbers are : %f",mean);
17.    return 0;
18. }
19.
20.
```

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Find the Mean, Median, Mode of the array of numbers?

Sample Input::

Array of elements = {16, 18, 27, 16, 23, 21, 19}

Sample Output:

Mean = 20

Median = 19

Mode = 16

1. Array of elements = {26, 28, 37, 26, 33, 31, 29}
2. Array of elements = {1.6, 1.8, 2.7, 1.6, 2.3, 2.1, .19}
3. Array of elements = {8, 168, 188, 278, 168, 238, 218, 198}
4. Array of elements = {288, 188, 188, 278, 168, 278, 278, 198}
5. Array of elements = {188, 188, 188, 188, 188, 188, 188, 188}

```
1. #include<stdio.h>
2. int main()
3. {
4.     int a[25],n,i;
5.     float mean=0.0,sum=0.0;
6.     printf("enter the number of terms:");
7.     scanf("%d",&n);
8.     for(i=1;i<=n;i++)
9.     {
10.        scanf("%d",&a[i]);
11.    }
12.    for(i=1;i<=n;i++)
13.    {
14.        sum=sum+a[i];
15.    }
16.    printf("\n Mean of the entered numbers are : %f",mean);
17.    return 0;
```

Your Input Goes Here...!!!

enter the number of terms:
Mean of the entered numbers are :
0.000000

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```
1. #include<stdio.h>
2. int main()
3. {
4.     int i,j,n;
5.     printf("enter number of rows to print hollow square:");
6.     scanf("%d",&n);
7.     for(i=1;i<=n;i++)
8.     {
9.         for(j=1;j<=n;j++)
10.        {
11.            if(i==1 ;i==n;j==n)
12.            {
13.                printf("*");
14.            }
15.            else
16.            {
17.                printf(" ");
18.            }
19.        }
20.        printf("\n");
21.    }
22.    return 0;
23. }
```

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