

Windows taskbar showing search bar, taskbar icons (File Explorer, Mail, Edge, etc.), system tray (27°C Haze, 1:12 PM, 4/5/2023).

Microsoft Edge

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Write a program to print hollow square symbol pattern?
Get the symbol from user.

Sample Input: #

Output:

#

```
1. #include<stdio.h>
int main(){
int i,j,N;
printf("enter the number of rows :\n");
scanf("%d",&N);
for(i=1;i<=N;i++){
for(j=1;j<=N;j++){
if(i==1 || i== N || j==1 || j== N){
printf(" # ");
}
else{
printf("  ");
}}
printf(" \n ");
}
return 0;
}
```

6

enter the number of rows :

#

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Questions

CEQ21.

Write a program to print the following pattern

Sample Input:
Enter the Character to be printed: %
Max Number of time printed: 3
%
%
% %
% % %

Test Cases

CEQ19

CEQ20

CEQ21

CEQ22

CEQ23

CEQ24

CEQ25

CEQ26

CEQ27

C

Run

Save

Logout

1. #include<stdio.h>
int main(){
int i,j,k,rows;
printf("enter the number of rows:\n");
scanf("%d",&rows);
for(i=1;i<=rows;i++){
for(j=1;j<=i;j++){
printf("%c");
}
printf("\n");
}
return 0;
}

4

enter the number of rows:
%
%%
%%%

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Questions

CEQ25.

Write a program to print the number of vowels in the given statement?

Sample Input:
Saveetha School of Engineering

Sample Output:
Number o vowels = 12

Test Cases

1. India is my country
2. All are my brothers and sisters
3. why dry sky
4. Shy Try Cry
5. EDUCATION

CEQ19

CEQ20

CEQ21

CEQ22

CEQ23

CEQ24

CEQ25

CEQ26

CEQ27

C

Run

Save

Logout

1. #include<stdio.h>
#include<string.h>
int main(){
char s[100];
int count=0;
printf("enter the sentence: \n");
scanf("%s",&s);
for(int i=0;i<strlen(s);i++){
if(s[i]=='a' || s[i]=='e' || s[i]=='i' || s[i]=='o' || s[i]=='u' || s[i]=='A' || s[i]=='E' || s[i]=='O' || s[i]=='U' || s[i]=='I' || s[i]=='O' || s[i]=='U')
count++;
}
printf("%d",count);
return 0;
}

India is my country

enter the sentence:
3

Type here to search

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Questions

CEQ23.

Find the number of factors for the given number

Sample Input:
Given number: 100

Sample Output:
Number of factors = 9

Test Cases

1. 343
2. 1080
3. -243
4. 101010
5. 0

CEQ19

CEQ20

CEQ21

CEQ22

CEQ23

CEQ24

CEQ25

CEQ26

CEQ27

C

Run

Save

Logout

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

100

enter a positive integer: factor of 100 are :9

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Questions

CEQ2.

Write a program to check the entered user name is valid or not. Get both the inputs from the u

Sample Input:
Enter the user name: Saveetha@789
Reenter the user name: Saveetha@123

Sample Output:
User name is Invalid

Test Cases

1. Student@123; Student@123
2. 123456; 12345
3. @#\$\$%^&; @#\$\$%^*
4. abcdef_12; abcdef_12

CEQ19

CEQ20

CEQ21

CEQ22

CEQ23

CEQ24

CEQ25

CEQ26

CEQ27

C

Run

Save

Logout

1. #include<stdio.h>
#include<string.h>
int main(){
char s[50],n[50];
printf("enter the email: \n");
scanf("%s",&s);
printf("reenter the email: \n ");
scanf("%s",&n);
if(strcmp(s,n)==0)
printf("user name is valid");
else
printf("user name is invalid");

return 0;
}

saveetha@123
saveetha123

enter the email:
reenter the email:
user name is valid

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Questions

CEQ20.

Find the factorial of n?

Sample Input:
N = 4

Sample Output:
4 Factorial = 24

Test Cases

1. N = 0
2. N = -5
3. N = 1
4. N = Q
5. N = 3A

CEQ19

CEQ20

CEQ21

CEQ22

CEQ23

CEQ24

CEQ25

CEQ26

CEQ27

C

Run

Save

Logout

1. #include<stdio.h>
int main(){
int i,fact=1,number;
printf("enter the number : ");
scanf("%d",&number);
for(i=1;i<=number;i++){
fact=fact*i;
}
printf("factorial of %d is : %d",number ,fact);
return 0;
}

4

enter the number : factorial of 4 is : 24

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Questions

CEQ24.

Write a program to print the given number is Perfect number or not?

Sample Input:
Given Number: 6

Sample Output:
It's a Perfect Number

Test Cases

1. 17
2. 26!
3. 143
4. 84.1
5. -963

CEQ19

CEQ20

CEQ21

CEQ22

CEQ23

CEQ24

CEQ25

CEQ26

CEQ27

C

Run

Save

Logout

```
1. #include<stdio.h>
2. int main(){
3. int i,j,x=0,n;
4. printf("enter the number: ");
5. scanf("%d",&n);
6. for(i=1;i<n;i++){
7. if(n%i==0){
8. x=x+i;
9. }
10. }
11. if(x==n)
12. {
    printf(" it is perfect num ");
  }
  else{
    printf("it is not perfect num ");
  }
  if(n<0){
```

28

enter the number: 1 it is perfect num

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Windows taskbar showing search bar, taskbar icons (File Explorer, Mail, Edge, etc.), system tray (clock, date, weather, volume, network, etc.).

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Microsoft Edge

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```
1. #include<stdio.h>
2. int main(){
3.     int i,j,x=0,n;
4.     printf("enter the number: ");
5.     scanf("%d",&n);
6.     for(i=1;i<n;i++){
7.         if(n%i==0){
8.             x=x+i;
9.         }
10.    }
11.    if(x==n)
12.    {
13.        printf(" it is perfect num ");
14.    }
15.    else{
16.        printf("it is not perfect num ");
17.    }
18.    if(n<0){
19.        for(i=-1;i>n;i--){
20.            if(n%i==0){
21.                x=x+i;
22.            }
23.        }
24.        if(x==n){
25.            printf("it is perfect %d");
26.        }
27.        else{
28.            printf("it is not perfect no %d");
29.        }
30.    }
31.    return 0;
32. }
```

28

enter the number: 1 it is perfect num

Type here to search

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Write a program to check the entered user name is valid or not.

Sample Input:

Enter the user name: Saveetha@789

Enter the user name: Saveetha@123

Sample Output:

User name is Invalid

```
1. #include<stdio.h>
2. #include<string.h>
3. int main(){
4.     char s[50],n[50];
5.     printf("enter the email: \n");
6.     scanf("%s",&s);
7.     printf("reenter the email: \n ");
8.     scanf("%s",&n);
9.     if(strcmp(s,n)==0)
10.    printf("user name is valid");
11.    else
12.    printf("user name is invalid");
13.
14.    return 0;
15. }
```

Type here to search

Run

Save

```
#include<stdio.h>
int main(){
    int num,i,count=0;
    printf("enter a positive integer: ");
    scanf("%d",&num);
    printf("factor of %d are :",num);
    for(i=1;i<=num;++i){
        if(num%i== 0)
            count++;
    }
    printf("%d",count);
    return 0;
}
```

Type here to search


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

Type here to search



C Run Save Logout

```
1. #include <stdio.h>
2. #include <string.h>
3. #include <ctype.h>
4.
5. int main() {
6.     char word[100];
7.     int i, vowels = 0, consonants = 0;
8.
9.     printf("Enter a word: ");
10.    scanf("%s", word);
11.
12.    printf("Vowels in the word: ");
13.    for(i=0; i<strlen(word); i++) {
14.        if(tolower(word[i])=='a' || tolower(word[i])=='e' || tolower(word[i])=='i' || tolower(word[i])=='o' || tolower(word[i])=='u') {
15.            printf("%c ", word[i]);
16.            vowels++;
17.        }
18.    }
19.
20.    printf("\nConsonants in the word: ");
21.    for(i=0; i<strlen(word); i++) {
22.        if(isalpha(word[i]) && tolower(word[i])!='a' && tolower(word[i])!='e' && tolower(word[i])!='i' && tolower(word[i])!='o' && tolower(word[i])!='u') {
23.            printf("%c ", word[i]);
24.            consonants++;
25.        }
26.    }
```

Sathya priya

enter how many data you want to
input:enter 16 data:mean or average
is:0.1
median is:0.0
mode is0

```
1. #include <stdio.h>
2. #include <string.h>
3. #include <ctype.h>
4.
5. int main() {
6.     char word[100];
7.     int i, vowels = 0, consonants = 0;
8.
9.     printf("Enter a word: ");
10.    scanf("%s", word);
11.
12.    printf("Vowels in the word: ");
13.    for(i=0; i<strlen(word); i++) {
14.        if(tolower(word[i])=='a' || tolower(word[i])=='e' || tolower(word[i])=='i' || tolower(word[i])=='o' || tolower(word[i])=='u') {
15.            printf("%c ", word[i]);
16.            vowels++;
17.        }
18.    }
19.
20.    printf("\nConsonants in the word: ");
21.    for(i=0; i<strlen(word); i++) {
22.        if(isalpha(word[i]) && tolower(word[i])!='a' && tolower(word[i])!='e' && tolower(word[i])!='i' && tolower(word[i])!='o' && tolower(word[i])!='u') {
23.            printf("%c ", word[i]);
24.            consonants++;
25.        }
26.    }
```

Sathya priya

enter how many data you want to
input:enter 16 data:mean or average
is:0.1
median is:0.0
mode is0


```

1. #include <stdio.h>
2. #include <string.h>
3. #include <ctype.h>
4.
5. int main() {
6.     char word[100];
7.     int i, vowels = 0, consonants = 0;
8.
9.     printf("Enter a word: ");
10.    scanf("%s", word);
11.
12.    printf("Vowels in the word: ");
13.    for(i=0; i<strlen(word); i++) {
14.        if(tolower(word[i])=='a' || tolower(word[i])=='e' || tolower(word[i])=='i' || tolower(word[i])=='o' || tolower(word[i])=='u')
15.            printf("%c ", word[i]);
16.        vowels++;
17.    }
18.
19.
20.    printf("\nConsonants in the word: ");
21.    for(i=0; i<strlen(word); i++) {
22.        if(isalpha(word[i]) && tolower(word[i])!='a' && tolower(word[i])!='e' && tolower(word[i])!='i' && tolower(word[i])!='o' && tolower(word[i])!='u')
23.            printf("%c ", word[i]);
24.        consonants++;
25.    }
26.
27.    printf("\nVowels: %d\nConsonants: %d", vowels, consonants);
28.
29.    return 0;
30. }
```

Sathya priya

```
enter how many data you want to
input:enter 16 data:mean or average
is:0.1
median is:0.0
mode is:0
```