

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

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Questions

CEQ26.

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

Sample Input: #

Output:

#

Test Cases

CEQ19
CEQ20
CEQ21
CEQ22
CEQ23
CEQ24
CEQ25
CEQ26
CEQ27

C

Run

Save

Logout

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 :

#

Type here to search

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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("%d");
}
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

CEQ2

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')
count++;
}
printf("%d",count);
return 0;
}

India is my country

enter the sentence:
3

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SIMATS C IDE

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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

Type here to search

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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. {
13. printf(" it is perfect num ");
14. }
15. else{
16. printf("it is not perfect num ");
17. }
18. if(n<0){
```

28

enter the number: 1 it is perfect num

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Not Now

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

1. 17
2. 261
3. 143
4. 84.1
5. -963

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){
        for(i=-1;i>n;i--){
            if(n%i==0){
                x=x+i;
            }
        }
    }
}
```

28

enter the number: 1 it is perfect num

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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

C Run Save

```
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. }
16.
17.
18.
```

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;
}
```

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Run Save

```
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. }
```



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```
1. #include<stdio.h>
2. #include<string.h>
3. int main(){
4. char s[100];
5. int count=0;
6. printf("enter the sentence: \n");
7. scanf("%s",&s);
8. for(int i=0;i<strlen(s);i++){
9. 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[
10. count++;
11. }
12. printf("%d",count);
13. return 0;
14. }
15.
16.
17.
18.
```

India is my

enter the s
3



Type here to search



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