

# *Day-3 PROGRAMES*

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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. 261
- 3. 143
- 4. 84.1
- 5. -963

C Run Save

```
1. #include <stdio.h>
2. int main()
3. {
4.     int num, sum=0,i;
5.     printf("enter any number:");
6.     scanf("%d",&num);
7.     for (i=1; i<num; i++)
8.     {
9.         if (num%i==0)
10.            sum=sum+i;
11.     }
12.     if(num==sum)
13.         printf("\n it is a perfect number.");
14.     else
15.         printf("\n it is not a perfect number.");
16.     return 0;
17. }
```

6

enter any number:  
it is a perfect number.

Questions  
CEQ2

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

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>
2. #include<string.h>
3. int main()
4. {
5.     char str1[10],str2[10];
6.     printf("Enter the username:\n");
7.     scanf("%s",&str1);
8.     printf("Reenter the username:\n");
9.     scanf("%s",&str2);
10.    if(strcmp(str1,str2)==0){
11.        printf("The username is valid ");
12.    }else{
13.        printf("The username is not valid");
14.    }
15.    return 0;
16. }
```

Saveetha123  
Saveetha123

Enter the username:  
Reenter the username:  
The username is not valid

CEQ27.

Write a program to print consonants and vowels separately in the given word.

Sample Input:  
Given Word: Engineering

Sample Output:  
Consonants: n g n r n g  
Vowels: e i e e i

- 1. TRY
- 2. MEDIAN
- 3. ONE
- 4. KNOWLEDGE
- 5. EDUCATION

- CEQ2
- CEQ20
- CEQ21
- CEQ22
- CEQ23
- CEQ24
- CEQ25
- CEQ26
- CEQ27

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```
1.#include<stdio.h>
2.#include<string.h>
3.int main()
4.{
5.char str[100];
6.int vowels=0, consonants=0;
7.printf("Enter a string:");
8.gets(str);
9.for(int i=0;i<strlen(str);i++)
10.{
11.if(str[i]=='a' || str[i]=='e' || str[i]=='i' || str[i]=='o' || str[i]=='u' || str[i]=='A' || str[i]=='E' || str[i]=='I' || str[i]=='O' || str[i]=='U')
12.{
13.vowels++;
14.}
15.else if((str[i]>='a'&& str[i]<='z') || (str[i]>='A'&& str[i]<='Z'))
16.{
17.consonants++;
18.}
19.}
20.printf("Vowels:%d\n",vowels);
21.printf("consonants:%d\n",consonants);
22.return 0;
23.}
```

Your Input Goes Here....!!!

<pre>C:/GCCPPComp/GCCPP35/bin/./lib/gcc/x86\_64-w64-mingw32/10.3.0/./../../../../x86\_64-w64-mingw32/bin/ld.exe: cannot open output file exe.exe: Permission denied
collect2.exe: error: ld returned 1 exit status

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Search

Windows icons

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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

CEQ21

CEQ22

CEQ23

CEQ24

CEQ25

CEQ26

CEQ27

C

Run

Save

Logout

```
1. #include<stdio.h>
int main()
{
int c=0,count=0;
char s[1000];
printf("input a string\n");
gets(s);
while(s[c] !='\0')
{
if(s[c]=='a' || s[c]=='A' || s[c]=='e' || s[c]=='E' || s[c]=='i' || s[c]=='I' || s[c]=='o' || s[c]=='O' || s[c]=='u' || s[c]=='U')
count ++;
c++;
}printf("number of vowels in the string:%d",count);
return 0;
}
```

saveetha school of engineering

enter side of square  
# # # #  
# # #  
# #

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13:47

05-04-2023

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

Sample Input: #

Output:  
# # # #  
# # # #  
# # # #  
# # # #

%  
&  
\*  
(  
)  
/

- CEQ20
- CEQ21
- CEQ22
- CEQ23
- CEQ24
- CEQ25
- CEQ26
- CEQ27

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

4

enter side of square

# # # #  
# # # #  
# # # #  
# # # #

CEQ21.

Write a program to print the following pattern

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

- CEQ2
- CEQ21
- CEQ22
- CEQ23
- CEQ24
- CEQ25
- CEQ26
- CEQ27

C

Run

Save

Logout

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

Your Input Goes Here....!!!

enter the number of rows:\*  
\*\*  
\*\*\*  
\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

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Sunny

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1. #include<stdio.h>  
int main(){  
int n,factorial =1;  
printf("enter a positive integer:");  
scanf("%d",&n);  
for(int i =1; i <=n;++i)  
{  
factorial \*=i;  
}  
printf("factorial of %d =%d\n",n,factorial);  
  
return 0;  
}

4

enter a positive integer:factorial of 4 =24

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  
CEQ2  
CEQ20  
CEQ21  
CEQ22  
CEQ23  
CEQ24  
CEQ25  
CEQ26  
CEQ27

C Run Save Logout

SIMATS  
Saveetha School of Engineering

SINGAMSETTY AKHILANANDAN  
192224060

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Gmail YouTube Maps New Tab  
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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

CEQ2

CEQ20

CEQ21

CEQ22

CEQ23

CEQ24

CEQ25

CEQ26

CEQ27

C

Run

Save

Logout

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

%

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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

CEQ2

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 the number");
5.     scanf("%d",&num);
6.     for(i = 1; i <=num; ++i){
7.         if(num%i==0){
8.             count++;
9.         }
10.    }
11.    printf("the no.of factors %d = %d\n",num,count);
12.
13.    return 0;
14. }
```

100

enter the numberthe no.of factors 100 = 9

Search

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