

```

#include<stdio.h>
int main()
{
int year;
printf("enter a year:");
scanf("%d",&year);
if((year%4==0 && year%100!=0) || year%400==0)
{
printf("%d" "is a leap year",year);
}
else{
printf("%d" "is not a leap year",year);
}
return 0;
}

```

```

1.  #include<stdio.h>
2.  int main()
3.  {
4.  int rows=5;
5.  for(int i=rows; i>=1;--i)
6.  {
7.  for(int j=1;j<=i;++j)
8.  {
9.  printf("$");
10. }
    printf("\n");
    }
    return 0;
    }

```

```

1.  #include<stdio.h>
2.  int main()
3.  {
4.  int n;
5.  printf("enter an integer:");
6.  scanf("%d",&n);
7.  double fractional_part=n-(int)n;
8.  printf("fractional part of %d is %1f\n", n, fractional_part);
9.  return 0;
10. }

```

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enter an integer:fractional part of 455
is 0.000000

```

1. #include<stdio.h>
2. int main()
3. {
4.     int n;
5.     printf("enter an integer:");
6.     scanf("%d",&n);
7.     double fractional_part=n-(int)n;
8.     printf("fractional part of%d is %1f\n", n, fractional_part);
9.     return 0;
10. }

```

```

1. #include<stdio.h>
2. #include<string.h>
3. #include<ctype.h>
4. int main()
5. {
6.     char username[20];
7.     int len,i;
8.     printf("enter a username:");
9.     scanf("%s",username);
10.    len = strlen(username);
11.    if(len<6||len>20)
12.    {
13.        printf("invalid username:length should be between 6and 20 characters\n");
14.        return 0;
15.    }
16.    if(!isalpha(username[0]))
17.    {
18.        printf("invalid username: frist character should be a letter\n");
19.        return 0;
20.    }
21.    for(i=0;i<len;i++)
22.    {
23.        if(isalnum(username[i])&& username[i]!='_')
24.        {
25.            printf("invalid username: should contain only alphanumeric characthers\n");
26.            return 0;
27.        }
28.    }
29. }

```

kurushith07vedha

enter a username:invalid username:
should contain only alphanumeric
characthers

```

1. #include<stdio.h>
2. int main()
3. {
4.     int rows=5;
5.     for(int i=rows; i>=1;--i)
6.     {
7.         for(int j=1;j<=i;++j)
8.         {
9.             printf("$");
10.        }
11.        printf("\n");
12.    }
13.    return 0;
14. }
15.
16.
17.

```

C



Run

Save

```
1. #include<stdio.h>
2. int main()
3. {
4.     int num,sum=0,i;
5.     printf("enter a number:");
6.     scanf("%d",&num);
7.     for(int i=1;i<num;i++)
8.     {
9.         if(num%i==0)
10.        {
11.            sum+=i;
12.        }
13.    }
14.    if(sum==num)
15.    {
16.        printf("%d" "is a perfect number.",num);
17.    }
18.    else{
19.        printf("%d" "is not a perfect number.",num);
20.    }
21.    return 0;
22. }
```

87

enter a number:87is not a perfect number.

C ▾ Run Save

```
1. #include<stdio.h>
   int main()
   {
       int num,sum=0,i;
       printf("enter a number:");
       scanf("%d",&num);
       for(int i=1;i<num;i++)
       {
           if(num%i==0)
           {
               sum+=i;
           }
       }
       if(sum==num)
       {
           printf("%d" "is a perfect number.",num);
       }
       else{
           printf("%d" "is not a perfect number.",num);
       }
       return 0;
   }
```

C ▾ Run Save

```
1. #include <stdio.h>
2. int main()
3. {
4.     int n ;
5.     printf("ENTER THE NUMBER OF ROWS: ");
6.     scanf("%d",&n);
7.     for (i=1;i<=n;i++)
8.     {
9.         for (j=1;j<=i;j++)
10.        {
11.            printf("% ");
12.        }
13.        printf("\n");|
14.    }
15.    return 0 ;
16. }
17.
```

Not secure | 172.18.50.116/php_c/home.php

C

Run

Save

Logout

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

4

enter the size of the square:****
* *
* *

Search

87

```
1. #include<stdio.h>
2. int main()
3. {
4.     int num,sum=0,i;
5.     printf("enter a number:");
6.     scanf("%d",&num);
7.     for(int i=1;i<=num;i++)
8.     {
9.         if(num%i==0)
10.        {
11.            sum+=i;
12.        }
13.    }
14.    if(sum==num)
15.    {
16.        printf("%d" "is a perfect number.",num);
17.    }
18.    else{
19.        printf("%d" "is not a perfect number.",num);
20.    }
21.    return 0;
22. }
```

87

enter a number:87is not a perfect number.

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

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enter a number:factor of the 576
are:12346891216182432364864729
6144192288576
number of factors:21