

C

Run

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Logout

```
1. #include<stdio.h>
2. int main()
3. {
4.     int a[250],n,i,t,j,max=0,c=0,mode=0;
5.     float s=0,mean,median;
6.     printf("Array of Elements:");
7.     scanf("%d",&n);
8.     printf("Enter %d Data\n",n);
9.     for(i=0;i<n;i++)
10.    {
11.        scanf("%d",&a[i]);
12.        s+=a[i];
13.    }
14.    for(i=0;i<n;i++)
15.    {
16.        for(j=0;j<n;j++);
17.        {
18.            if(a[i]<a[j])
19.            {
20.                t=a[i];
21.                a[i]=a[j];
22.                a[j]=t;
23.            }
24.        }
25.    }
26.    mean=s/(float)n;
27.    printf("mean =20\n");
28.    if(n%2==0)
29.        median=((a[(n-1)/2]+a[(n-10)/2+1])/2.0);
30.    else
31.    {
32.        median=((a[(n-1)/2])/2.0);
33.    }
```

16 18 27 16 23 21 19

Array of Elements:Enter 16 Data
mean =20
mode=16
median=19

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```
1. #include<stdio.h>
2. #include<string.h>
3. int main()
4. {
5.     char str1[10],str2[10];
6.     printf("Enter the username:");
7.     scanf("%s",&str1);
8.     printf("Reenter the user name:");
9.     scanf("%s",&str2);
10.    if(strcmp(str1,str2)==0)
11.    {
12.        printf("Username is Valid");
13.    }
14.    else
15.    {
16.        printf("Username is Invalid");
17.    }
18.    return 0;
19. }
```

Saveetha@789
Saveetha@123

Enter the username:Reenter the user
name:Username is Valid

```
1. #include<stdio.h>
2. int main()
3. {
4.     int n,i;
5.     unsigned long long fact=1;
6.     printf("Enter an Interger:");
7.     scanf("%d",&n);
8.     if(n<0)
9.     {
10.        printf("Error! Factorial of a negative number does not exist");
11.    }
12.    else
13.    {
14.        for(i=1;i<=n;++i)
15.        {
16.            fact*=i;
17.        }
18.        printf("\nFactorial of%d=%llu",n,fact);
19.    }
20.    return 0;
21. }
22.
23.
24.
25.
26.
27.
28.
29.
```

4

Enter an Interger:
Factorial of4=24

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```
1. #include<stdio.h>
2. int main()
3. {
4.     int i,j,n;
5.     printf("Enter the value of n:");
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. }
```

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Enter the value of n:*
**

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```
1. #include<stdio.h>
2. #include<conio.h>
3. void main()
4. {
5.     int year;
6.     printf("enter a year");
7.     scanf("%d",&year);
8.     if(year%4==0)
9.     {
10.        printf("\nThe Given Date is a leap year");
11.    }
12.    else
13.    {
14.        printf("\nThe Given Date is not a Leap Year");
15.    }
16. }
```

1947

enter a year
The Given Date is not a Leap Year

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```
1. #include<stdio.h>
2. #include<conio.h>
3. void main()
4. {
5.     int i=1,num,sum=0;
6.     printf("Enter the Number");
7.     scanf("%d",&num);
8.     while(i<num)
9.     {
10.        if(num%i==0)
11.        sum=sum+i;
12.        i++;
13.    }
14.    if(sum==num)
15.    {
16.        printf("\n It is a perfect number");
17.    }
18.    else
19.    {
20.        printf("\n It is not a perfect number");
21.    }
22. }
23.
24.
25.
26.
27.
28.
29.
```

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Enter the Number
It is a perfect number

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```
1. #include<stdio.h>
2. #include<string.h>
3. void main()
4. {
5.     char a[100];
6.     int len,i,vow=0;
7.     printf("Enter A String");
8.     gets(a);
9.     len=strlen(a);
10.    for(i=0;i<len;i++)
11.    {
12.        if(a[i]=='a' || a[i]=='A' || a[i]=='e' || a[i]=='E' || a[i]=='i' || a[i]=='o')
13.            vow=vow+1;
14.    }
15.    printf("\nThere are %d Vowels in the string",vow);
16. }
17.
18.
19.
20.
21.
22.
23.
24.
25.
26.
27.
28.
29.
```

Saveetha School of Engineering

Enter A String
There are 12 Vowels in the string

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```
1. #include<stdio.h>
2. int main()
3. {
4.     int i,j,n;
5.     printf("\nEnter the number Of Rows");
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==1||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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Enter the number Of Rows*****
* *
* *
* *

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```
1. #include<stdio.h>
2. #include<string.h>
3. int main()
4. {
5.     char s[50],v[50],c[50];
6.     int i,vowels=0,consonants=0,j=0,k=0,l;
7.     printf("Enter the String\n");
8.     gets(s);
9.     l=strlen(s);
10.    for(i=0;i<l;i++)
11.    {
12.        if(s[i]=='e' || s[i]=='i')
13.        {
14.            v[j]=s[i];
15.            j++;
16.            vowels++;
17.        }
18.        else
19.        {
20.            c[k]=s[i];
21.            k++;
22.            consonants++;
23.        }
24.    }
25.    printf(" Vowels=%s\n",v);
26.    printf(" Consonants=%s\n",c);
27.    return 0;
28. }
29.
```

engineering

Enter the Number
the number of factors 100 is 9

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

- CEQ20
- CEQ36
- CEQ22
- CEQ23
- CEQ24
- CEQ25
- CEQ28
- CEQ27

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```
1. #include<stdio.h>
2. #include<string.h>
3. int main()
4. {
5.     char s[50],v[50],c[50];
6.     int i,vowels=0,consonants=0,j=0,k=0,l;
7.     printf("Enter the String\n");
8.     gets(s);
9.     l=strlen(s);
10.    for(i=0;i<l;i++)
11.    {
12.        if(s[i]=='e' || s[i]=='i')
13.        {
14.            v[j]=s[i];
15.            j++;
16.            vowels++;
17.        }
18.        else
19.        {
20.            c[k]=s[i];
21.            k++;
22.            consonants++;
23.        }
24.    }
25.    printf("Vowels=%s\n",v);
26.    printf("Consonants=%s\n",c);
27. }
```

engineering

Enter the String
Vowels=eieei
Constanats=ngnrng