

Q1:Write a Programme to search a number in an array or assign a number in a new index.....

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Q2:Write a Programme to insert a new number in an index of an array:

```
#include<iostream>

using namespace std;

int main()
{   int j,i,a[100],n,x,d;

    int k=-1;

    cout<<"Enter the value of array:";

    cin>>x;

    for(i=0; i<x; i++)

    {cin>>a[i];

    }

    for(j=0; j<x; j++)

    {

        cout<<a[j]<<endl;

    }

    cout<<"enter your number which you want to search:";

    cin>>n;

    for(i=0; i<x; i++)

    {if(a[i]==n)

        {k=a[i];}}

    if(k>-1)

    cout<<"The position is"<<k<<endl;

    if(k== -1)

    cout<<"the position you are searching are not found"<<endl;

    cout<<"enter your number which you want to insert:";
```

```

cin>>n;
cout<<"enter the index=";
cin>>d;
a[d]=n;
for(i=x+1; i>d; i--)
{
    a[i]=a[i-1];
}
for(i=0; i<x; i++)
{
    cout<<a[i]<<endl;
}
return 0;
}

```

Q3:Write a programme whether a Character is Vowel or consonant or digit or a decimal number:

```

#include<iostream>
using namespace std;
int main()
{
    int i,j,n,s=0,m=0,p=0;
    char a[100];
    cin>>n;
    for(i=0;i<n;i++)
    {
        cin>>a[i];
    }
}

```

```
}  
for(i=0;i<n;i++)  
{  
if(a[i]=='A' | | a[i]=='E' | | a[i]=='I' | | a[i]=='O' | | a[i]=='U' | | a[i]=='a' | | a[i]=='e' | | a[i]=='i' | | a[i]=='o' | | a  
[i]=='u')  
    s++;  
  
else  
if(a[i]=='0' | | a[i]=='1' | | a[i]=='2' | | a[i]=='3' | | a[i]=='4' | | a[i]=='5' | | a[i]=='6' | | a[i]=='7' | | a[i]=='8' | | a  
[i]=='9')  
    m++;  
else  
p++;  
}  
cout<<"vowel="<<s<<endl;  
cout<<"digit="<<m<<endl;  
cout<<"consonent="<<p<<endl;  
  
return 0;  
}
```