UNDERSTANDING DATA STRUCTURES

NAME: SHUBHARTHAK SANGHARASHA

CLASS: AIML-4-C

UID: 20BCS6872

• Write a program for array rotation

```
PROGRAM CODE:-
```

```
#include<iostream>

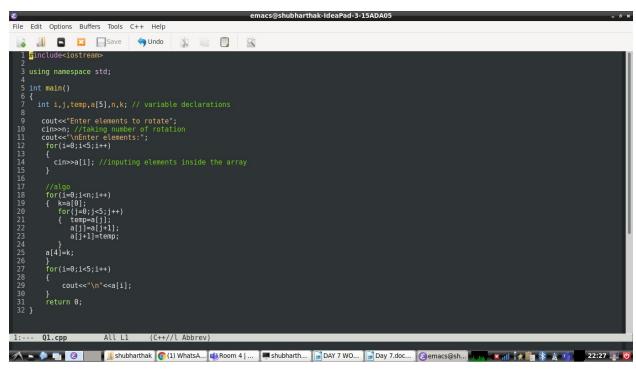
using namespace std;

int main()
{
    int i,j,temp,a[5],n,k; // variable declarations

    cout<<"Enter elements to rotate";
    cin>>n; //taking number of rotation
    cout<<"\nEnter elements:";
    for(i=0;i<5;i++)
    {
        cin>>a[i]; //inputing elements inside the array
    }

//algo
```

```
for(i=0;i<n;i++)
{ k=a[0];
  for(j=0;j<5;j++)
  { temp=a[j];
    a[j]=a[j+1];
    a[j+1]=temp;
  }
  a[4]=k;
}
  for(i=0;i<5;i++)
  {
    cout<<"\n"<<a[i];
  }
  return 0;
}</pre>
```



Output:-



Write a program to Rearrange an array such that arr[i]
 i

PROGRAM CODE:-

#include<iostream>
using namespace std;

int main()

```
{ int i,j,temp,a[10];
 cout<<"Enter elements";</pre>
 for(i=0;i<5;i++)
 {
   cin>>a[i];
 }
 for(i=0;i<5;i++)
 { for(j=i+1;j<5;j++)
   {
     if(a[j] < a[i])
      { temp=a[i];
       a[i]=a[j];
       a[j]=temp;
      }
   }
 cout<<"Array in arrange order\n";</pre>
 for(i=0;i<5;i++)
 {
   cout << a[i] << "\n";
 }
 return 0;
}
```

OUTPUT:-

