```
#include<iostream.h>
#include<conio.h>
#includeocess.h>
class demo
      int a[10], i, j, n, item, k;
public:
      void get();
      void insert();
      void del();
      void dis();
};
void demo::get()
      cout<<"\nEnter n";</pre>
      cin>>n;
      cout<<"\nEnter Array Element:";</pre>
      for(i=0;i<n;i++)
      cin>>a[i];
void demo::insert()
{
      cout<<"\nEnter Position:";</pre>
      cin>>k;
      cout<<"\nEnter Item:";</pre>
      cin>>item;
      j=n;
      while (j \ge k)
            a[j+1]=a[j];
            j−−;
      a[k]=item;
      n++;
void demo::del()
      cout<<"\nEnter Position:";</pre>
      cin>>k;
      j=k;
      while (j \le n-1)
            a[j]=a[j+1];
            j++;
      }
      n--;
void demo::dis()
{
      cout<<"\n Elements are\n";</pre>
      for(i=0;i<n;i++)
      cout << a[i] << "\t";
}
void main()
```

clrscr();

```
demo d;
     int ch;
     d.get();
     cout<<"\n1. Insert 2.Del 3.Dis 4. Exit\n";</pre>
     while(ch!=4)
           cout<<"\n Enter choice";</pre>
           cin>>ch;
           switch(ch)
                case 1: d.insert(); break;
                case 2: d.del(); break;
                case 3: d.dis(); break;
                 case 4: exit(0);
     getch();
*/ Output */
Enter n 3
Enter Array Element:1 2 4
1. Insert 2.Del 3.Dis 4. Exit
Enter choice 3
Elements are
       2
Enter choice 1
Enter Position: 2
Enter Item: 6
Enter choice 3
Elements are
   6
Enter choice 2
Enter Position: 3
Enter choice 3
Elements are
        6
 Enter choice 4
```

```
Assignment Name: Demonstration of Matrix
Class: BCA-II
                                                        Lab: BCA 407(DS)
#include<iostream.h>
#include<conio.h>
class matrix
      int a[5][5],b[5][5],c[5][5],d[5][5],e[5][5],f[5][5];
      int p,q,i,j,k,n,m;
      public:
            void get();
            void add();
            void sub();
            void trans();
            void mul();
};
void matrix::get()
{
      cout<<"\nEnter Number of Row & Column :\t";</pre>
      cin>>n>>m;
      cout<<"\nEnter the first Matrix:\n";</pre>
      for(i=0;i<n;i++)
            for (j=0; j<m; j++)
            cin>>a[i][j];
      cout<<"\nEnter Number of Row & Column :\t";</pre>
      cin>>p>>q;
      cout<<"\nEnter the first Matrix:\n";</pre>
      for(i=0;i<p;i++)
            for(j=0;j<q;j++)
            cin>>b[i][j];
      }
}
void matrix::add()
      for(i=0;i<n;i++)
            for(j=0;j<m;j++)
                  c[i][j]=a[i][j]+b[i][j];
      cout<<"\nThe addition of two matrix is :\n";</pre>
      for(i=0;i<n;i++)
            for (j=0; j<m; j++)</pre>
                   cout<<c[i][j]<<"\t";
                   cout<<"\n";
            }
```

}

```
void matrix::sub()
            for(i=0;i<n;i++)
                  for (j=0; j<m; j++)
                  d[i][j]=a[i][j]-b[i][j];
      cout<<"\nThe Substraction of two matrix is :\n";</pre>
      for(i=0;i<n;i++)
      {
            for (j=0; j<m; j++)
                    cout<<d[i][j]<<"\t";
                    cout<<"\n";
      }
}
void matrix::trans()
{
      for(i=0;i<n;i++)
            for (j=0; j<m; j++)
                  e[i][j]=a[j][i];
      cout<<"\nThe Transpose of first matrix is :\n";</pre>
      for(i=0;i<n;i++)
            for (j=0; j<m; j++)</pre>
                  cout<<e[i][j]<<"\t";
                  cout<<"\n";
      }
}
void matrix::mul()
{
      if(m==p)
       for(i=0;i<n;i++)
            for (j=0; j<q; j++)
            { c[i][j]=0;
            for (k=0; k<p; k++)
                  c[i][j]=c[i][j]+a[i][k]*b[k][j];
            }
       }
      cout<<"\nThe Matrix Multiplication is : \n";</pre>
      for(i=0;i<n;i++)
       {
            for (j=0; j<m; j++)
            cout<<c[i][j]<<"\t";
            cout<<"\n";
       }
      }
      else
      cout<<"\n Matrix Multiplication not possible";</pre>
```

```
}
void main()
     clrscr();
     matrix m;
     m.get();
     m.add();
     m.sub();
     m.trans();
     m.mul();
     getch();
*/ Output */
Enter Number of Row & Column: 3 3
Enter the first Matrix:
1 2 3
4 5 6
7 8 9
Enter Number of Row & Column : 3 3
Enter the first Matrix:
1 2 3
4 5 6
7 8 9
The addition of two matrix is :
2
        4
                6
8
        10
                12
14
       16
                18
The Substraction of two matrix is :
0
    0
           0
        0
0
                0
0
        0
                0
The Transpose of first matrix is :
        4
1
               7
2
        5
                8
        6
                9
3
The Matrix Multiplication is :
30
   36
                42
66
        81
                96
      126
                150
102
```

Assignment Name: Implement Stack for Integer
Class: BCA-II Lab: BCA 407(DS)

```
#include<iostream.h>
#include<conio.h>
#includeocess.h>
class stack
      int s[10], n, top, ele, i;
public:
      stack()
            top=-1;
      void push();
      void dis();
      int pop();
      int peep();
      void change();
};
void stack::push()
      if(top>=2)
       cout<<"\nStack is overflow:";</pre>
       cout<<"\nEnter element:";</pre>
       cin>>ele;
       top++;
       s[top]=ele;
}
void stack::dis()
{
      cout<<"\nElements in stack are:\n";</pre>
      for(i=top;i>=0;i--)
       cout<<s[i]<<"\t";
}
int stack::pop()
      if(top==-1)
            cout<<"\nUnderflow";</pre>
            return 0;
      else
            return (s[top--]);
}
int stack::peep()
      cout<<"\nEnter position:";</pre>
      cin>>i;
      if((top-i+1)<0)
            cout<<"\nUnderflow";</pre>
```

return 0;

```
else
      return (s[top-i+1]);
}
void stack::change()
      cout<<"\nEnter position ";</pre>
      cin>>i;
      if((top-i+1)<0)
            cout<<"\nUnderflow";</pre>
      else
            int n;
            cout<<"\nEnter element:";</pre>
            cin>>n;
            s[top-i+1]=n;
}
void main()
      clrscr();
      stack s;
      int ch;
      cout<<"\n1. Push 2.Display 3.Pop 4.Peep 5.Change 6.Exit\n";</pre>
      while (ch!=6)
            cout<<"\nEnter ch :";</pre>
            cin>>ch;
            switch(ch)
                  case 1: s.push(); break;
                  case 2: s.dis(); break;
                  case 3: int n=s.pop();
                       if(n>0)
                        cout<<"\nPop ele is "<<n;</pre>
                        break;
                  case 4: int m=s.peep();
                        if(m>0)
                        cout<<"\nPeep ele is "<<m;</pre>
                        break;
                  case 5: s.change(); break;
                  case 6: exit(0);
            }
      getch();
}
*/ Output */
1. Push 2.Display 3.Pop 4.Peep 5.Change 6.Exit
Enter ch :1
Enter element:10
Enter ch :1
```

Enter element:20 Enter ch :1 Enter element:30 Enter ch :1 Stack is overflow: Enter ch :2 Elements in stack are: 30 20 10 Enter ch :3 Pop ele is 30 Enter ch :2 Elements in stack are: 20 10 Enter ch :4 Enter position:1 Peep ele is 20 Enter ch : Elements in stack are: 20 10 Enter ch :5 Enter position 1 Enter element:80 Enter ch :2

Elements in stack are:

80 10 Enter ch : 6

Assignment Name: Implement linear queue for integer Class: BCA-II Lab: BCA 407(DS) #include<iostream.h> #include<conio.h> #includeprocess.h> class queue int f, r, q[10], n, i;public: queue() f=r=0;void insert(); void del(); void dis(); }; void queue::insert() { if(r==3)cout<<"\nOverflow";</pre> else cout<<"\nEnter n";</pre> cin>>n; if(f==0)f=1;r++; q[r]=n;} } void queue::del() if(f==0)cout<<"\nUnderflow";</pre> return; } else int n; n=q[f];if(f==r)f=r=0;else cout<<"\nDeleted element is "<<n;</pre> } } void queue::dis() { if(f==0)cout<<"\nUnderflow";</pre>

else

cout<<"\nElements in queue are:";</pre>

```
for(i=f;i<=r;i++)
        cout << q[i] << "\t";
}
void main()
      clrscr();
      queue q;
      int ch;
      cout<<"\n 1.insert 2.display 3.delete 4. exit \n";</pre>
      while(ch!=4)
           cout<<"\nEnter ch:";</pre>
           cin>>ch;
           switch(ch)
                 case 1: q.insert(); break;
                 case 2: q.dis(); break;
                 case 3: q.del(); break;
                 case 4:exit(0);
      getch();
}
*/ Output */
 1.insert 2.display 3.delete 4. exit
Enter ch:3
Underflow
Enter ch:1
Enter n10
Enter ch:1
Enter n20
Enter ch:1
Enter n30
Enter ch:1
Overflow
Enter ch:2
Elements in queue are:10
                                  20
                                           30
Enter ch:3
Deleted element is 10
Enter ch:2
Elements in queue are:20
                                  30
Enter ch:4
```

Assignment Name: Perform Insert, Display, delete, search, sum operation on LL Class: BCA-II Lab: BCA 407(DS) ______ #include<iostream.h> #include<conio.h> #includeocess.h> class node int info, item, s; node *link; public: void insert(); void dis(); void del(); void search(); void sum(); }; node *move, *start=NULL, *temp; void node::insert() cout<<"\nEnter the item:";</pre> cin>>item; node *node1=new node; node1->link=NULL; node1->info=item; if(start==NULL) start=node1; else move=start; while (move->link!=NULL) move=move->link; move->link=node1; } void node::dis() node *x; x=start; cout<<"\n Elements in LL are:";</pre> while(x!=NULL) $cout << "\t" << x-> info;$ x=x->link;} } void node::sum() node *x; x=start; s=0;while (x!=NULL)

s=s+x->info;

```
x=x->link;
      cout<<"\nSum of node is"<<s;</pre>
}
void node::del()
      temp=start;
      if(temp!=NULL)
            temp=temp->link;
            cout<<"\nDeleted node is"<<start->info;
            start=temp;
      else
            cout<<"\n List is empty:";</pre>
}
void node::search()
      int c=0, f=0, d;
      cout<<"\nEnter item";</pre>
      cin>>item;
      temp=start;
      while(temp!=NULL)
            C++;
            if(temp->info==item)
            {
                  f=1;
                  d=c;
                  break;
            temp=temp->link;
      if(f==1)
            cout<<"\nElement is found at position "<<d;</pre>
      else
            cout<<"\nElement is not found";</pre>
}
void main()
      clrscr();
     node n;
      int ch;
      cout<<"\n1.Insert 2.Display 3. Delete 4.Search 5.Sum 6.Exit\n";</pre>
      do
            cout<<"\nEnter choice";</pre>
            cin>>ch;
            switch (ch)
                  case 1: n.insert(); break;
                  case 2: n.dis(); break;
                  case 3: n.del(); break;
                  case 4: n.search(); break;
                  case 5: n.sum(); break;
                  case 6: exit(0);
            }
```

```
}while(ch!=6);
     getch();
}
*/ Output */
1.Insert 2.Display 3. Delete 4.Search 5.Sum 6.Exit
Enter choice1
Enter the item:10
Enter choice1
Enter the item:20
Enter choice1
Enter the item:30
Enter choice2
                           20
                                       30
Elements in LL are: 10
Enter choice3
Deleted node is10
Enter choice2
Elements in LL are: 20
                                30
Enter choice5
Sum of node is50
Enter choice4
Enter item30
Element is found at position 2
Enter choice4
Enter item19
Element is not found
Enter choice 6
```

```
Assignment Name: Perform Deletion in LL according to position &
                    information
Class: BCA-II
                                                       Lab: BCA 407(DS)
#include<iostream.h>
#include<conio.h>
#includeocess.h>
class node
      int info, item;
     node *link;
public:
     void insert();
     void dis();
      void del info();
     void del pos();
};
node *move, *start, *temp;
void node::insert()
      cout<<"\nEnter the item:";</pre>
      cin>>item;
      node *node1=new node;
     node1->link=NULL;
     node1->info=item;
      if(start==NULL)
           start=node1;
     else
           move=start;
           while (move->link!=NULL)
           move=move->link;
           move->link=node1;
}
void node::dis()
     node *x;
     x=start;
      while (x!=NULL)
           cout << " \t" << x -> info;
           x=x->link;
void node::del pos()
      int pos, f=0, c=0;
      node *p;
      cout<<"\nEnter Position:";</pre>
      cin>>pos;
      temp=start;
      if(start==NULL)
            cout<<"\nLL is empty\n";</pre>
      if(pos==1)
```

start=start->link;

```
f=1;
      while (temp! = NULL)
            C++;
            p=temp;
            temp=temp->link;
            if(c==pos-1)
                  f=1;
                  p->link=temp->link;
            }
      if(f==0)
            cout<<"\n node is not found";</pre>
}
void node::del info()
{
      int pos, f=0;
      node *p;
      cout<<"\nEnter the element:";</pre>
      cin>>item;
      temp=start;
      if(start==NULL)
            cout<<"\nLL is Empty:";</pre>
      if(start->info==item)
            start=start->link;
            f=1;
      while (temp! = NULL)
            p=temp;
            temp=temp->link;
            if(temp->info==item)
            {
                  p->link=temp->link;
      if(f==0)
            cout<<"\n node is not found";</pre>
}
void main()
      clrscr();
      node n;
      cout<<"\n1.Insert 2.Display 3.Del_position 4.Del_information 5.exit:\n";</pre>
      while(ch!=5)
            cout<<"\nEnter choice";</pre>
            cin>>ch;
            switch(ch)
                  case 1: n.insert(); break;
                  case 2: n.dis(); break;
                  case 3: n.del pos(); break;
                  case 4: n.del info(); break;
```

```
case 5: exit(0);
getch();
}
*/ Output */
1. Insert 2. Display 3. Del position 4. Del information 5. exit:
Enter choice1
Enter the item:10
Enter choice1
Enter the item:20
Enter choice1
Enter the item:-3
Enter choice2
       10
               20
                       -3
Enter choice3
Enter Position:2
Enter choice2
        10
Enter choice4
Enter the element: -3
Enter choice2
        10
Enter choice 5
```

Assignment Name: Implement Doubly Link List Class: BCA-II Lab: BCA 407(DS) #include<iostream.h> #include<conio.h> #includecess.h> class node int info,c,j; node *left,*right; public: void insert(); void display(); void del(); }; node *start=NULL, *temp=NULL, *move=NULL, *temp1=NULL; void node::insert() { int item; node *p=new node; cout<<"\nEnter element:";</pre> cin>>item; p->info=item; p->left=NULL; p->right=NULL; if(start==NULL) start=p; return; } else { temp=start; while(temp->right!=NULL) temp=temp->right; temp->right=p; p->left=start; } void node::display() { move=start; if (move==NULL) cout<<"\n LL Empty:";</pre> return; } else cout<<"\n node in DLL are :";</pre> while (move!=NULL) cout<<move->info<<"\t";</pre> move=move->right; }

}

```
}
void node::del()
      if(start==NULL)
           cout<<"\n LL Empty:";</pre>
           return;
      temp=start;
      start=temp->right;
      start->left=NULL;
      temp->right=NULL;
      cout<<"\n deleted element is"<<temp->info;
}
void main()
{
     clrscr();
     node n;
      int ch;
      cout<<"\n1. Insert 2. Display 3.Delete 4. Exit";</pre>
     while (ch!=4)
           cout<<"\nEnter choice";</pre>
           cin>>ch;
           switch (ch)
                 case 1: n.insert(); break;
                 case 2: n.display(); break;
                 case 3: n.del(); break;
                 case 4: exit(0);
            }
     getch();
}
*/ Output */
1. Insert 2. Display 3. Delete 4. Exit
Enter choice2
LL Empty:
Enter choice1
Enter element:10
Enter choice1
Enter element:20
Enter choice1
Enter element:30
Enter choice2
                                 30
 node in DLL are :10 20
Enter choice3
```

deleted element is10 Enter choice2

node in DLL are :20 30

Enter choice3

deleted element is20

Enter choice3

deleted element is30

Enter choice2

LL Empty:

Enter choice3

LL Empty:

Enter choice

Assignment Name: Perform Bubble Sort Class: BCA-II Lab: BCA 407(DS) #include<iostream.h> #include<conio.h> class demo int a[10],i,last,exch,j,n,temp; public: void get(); void asc_sort(); void dec sort(); void disp(); }; void demo::get() { cout<<"\n Enter the array size:";</pre> cin>>n; cout<<"\nEnter the array element:";</pre> for(i=1;i<=n;i++) cin>>a[i]; } void demo::asc sort() { last=n; for(i=1;i<=n-1;i++) exch=0;for (j=1; j<=last-1; j++) if(a[j]>a[j+1])temp=a[j]; a[j]=a[j+1];a[j+1] = temp;exch=exch+1; } } if(exch==0)return; else last=last-1; void demo::dec sort() last=n;

for (i=1; i<=n-1; i++)

exch=0;

for(j=1;j<=last-1;j++)

if(a[j] < a[j+1])

temp=a[j]; a[j]=a[j+1];

```
a[j+1] = temp;
                 exch=exch+1;
            }
      }
      if(exch==0)
      return;
      else
      last=last-1;
}
void demo::disp()
{
      cout<<"\nThe array element are";</pre>
      for(i=1;i<=n;i++)
           cout<<a[i]<<"\t";
}
void main()
{
      clrscr();
     demo d;
     d.get();
     d.disp();
     d.asc sort();
      cout<<"\nAfter Ascending Sort:";</pre>
     d.disp();
     d.dec_sort();
      cout<<"\nAfter Descending Sort:";</pre>
     d.disp();
     getch();
}
*/ Output */
Enter the array size: 3
Enter the array element: 12 3 45
The array element are12 3
                                   45
After Ascending Sort:
The array element are3
                                   45
After Descending Sort:
The array element are 45 12
                                   3
```

Assignment Name: Perform Selection Sort Class: BCA-II Lab: BCA 407(DS) #include<iostream.h> #include<conio.h> class demo int a[10],i, min index,j,n,temp; public: void get(); void asc sort(); void dsc_sort(); void disp(); }; void demo::get() { cout<<"\nEnter the array size:";</pre> cin>>n; cout<<"\nEnter the array element:";</pre> for(i=1;i<=n;i++) cin>>a[i]; } void demo::asc_sort() for (i=1; i<=n-1; i++) min index=i; for(j=i+1;j<=n;j++) if(a[j] < a[min index])</pre> min index=j; if(min index!=i) temp=a[min index]; a[min index]=a[i]; a[i]=temp; } } } void demo::dsc_sort() for(i=1;i<=n;i++) min index=i; for(j=i+1; j<=n; j++) if(a[j]>a[min index]) min index=j; }

if(min_index!=i)

{

```
temp=a[min index];
                 a[min index]=a[i];
                 a[i]=temp;
           }
      }
}
void demo::disp()
      cout<<"\n The array element are";</pre>
      for(i=1;i<=n;i++)
      cout<<a[i]<<"\t";
void main()
     clrscr();
     demo d;
     d.get();
     d.disp();
     d.asc sort();
      cout<<"\nAfter ascending sort:";</pre>
     d.disp();
     d.dsc sort();
      cout<<"\n After Descending sort:";</pre>
      d.disp();
      getch();
}
*/ Output */
Enter the array size:4
Enter the array element:12 3 -45 -6
                                  3
 The array element are12
                                           -45
                                                    -6
After ascending sort:
 The array element are-45
                                  -6
                                           3
                                                    12
 After Descending sort:
 The array element are12
                                  3
                                           -6
                                                    -45
```

Assignment Name: Implement Insertion Sort Lab: BCA 407(DS) Class: BCA-II #include<iostream.h> #include<conio.h> #include<stdlib.h> #include<math.h> class insert int n,a[10],temp,ptr,q,i,j,k,key; public: void get(); void sort(); void display(); }; void insert::get() { cout<<"\nEnter Range:";</pre> cin>>n; for(i=1;i<=n;i++) a[i] = random(1000);cout<<"\nElements are :";</pre> for(i=1;i<=n;i++) cout<<a[i]<<"\t"; } void insert::sort() a[0] = -9999;for(i=2;i<=n;i++) temp=a[i]; ptr=i-1; while(temp<a[ptr])</pre> a[ptr+1]=a[ptr];ptr--; a[ptr+1]=temp; } } void insert::display() cout<<"\nSorted Element using Insertion Sort:";</pre> for(i=1;i<=n;i++) cout << a[i] << "\t"; } void main() { clrscr(); insert h; h.get(); h.sort(); h.display(); getch(); */ Output */ Enter Range:5

Elements are :10

3

Sorted Element using Insertion Sort:3 10

335

33

355

33

335

355

```
Assignment Name: Implement Linear and Binary Search
Class: MCA I
                                                         Lab: CA Lab III (DS)
#include<iostream.h>
#include<conio.h>
#includeocess.h>
class demo
      int a[10], i, j, n, f, temp, ele, demo, mid, low, high;
public:
      void get();
      void sort();
      void linear();
     void binary();
     void dis();
};
void demo::get()
      cout<<"\n Enter n:";</pre>
      cin>>n;
      cout<<"\nEnter array Elements:";</pre>
      for(i=1;i<=n;i++)
        cin>>a[i];
}
void demo::linear()
      int ele;
      cout<<"\nEnter the element to be search";</pre>
      cin>>ele;
      for(i=1;i<=n;i++)
            if(a[i] == ele)
                  cout<<"\nSuccessful search";</pre>
                  cout<<"\nElement is found at position "<<i;</pre>
                  return;
            }
      if(i>n)
      {
            cout<<"\nUnsuccessful search:";</pre>
            cout<<"\nElement is not found ";</pre>
}
void demo::sort()
      for(i=1;i<=n;i++)
        for(j=1;j<=n-1;j++)
           if(a[j] < a[j+1])
            temp=a[j];
```

a[j]=a[j+1];

```
a[j+1] = temp;
         }
         }
}
void demo::binary()
      cout<<"\nEnter element to be search ";</pre>
      cin>>ele;
      f=0;
      low=1;
      high=n;
      while(low<=high)</pre>
            mid=(low+high)/2;
            if(a[mid] == ele)
                   f=1;
                   cout<<"\nElement is found at :"<<mid;</pre>
                   return;
            else if(a[mid]<ele)</pre>
                  low=mid+1;
            else if(a[mid]>ele)
                  high=mid-1;
      if(f==0)
      cout<<"\n Element is not found:";</pre>
}
void demo::dis()
      cout<<"\n Element are \n";</pre>
      for(i=1;i<=n;i++)
       cout << a[i] << "\t";
}
void main()
      clrscr();
      demo d;
      int ch;
      d.get();
      d.dis();
      cout<<"\n 1:Linear 2:Binary 3:exit\n";</pre>
      while (ch!=3)
            cout<<"\nEnter Choice:";</pre>
            cin>>ch;
            switch (ch)
             case 1: d.linear(); break;
             case 2: d.sort();
                    d.dis();
                    d.binary(); break;
             case 3: exit(0); break;
      getch();
}
```

*/ Output */ Enter n:3 Enter array Elements:12 3 45 Element are 12 3 45 1:Linear 2:Binary 3:exit Enter Choice:1 Enter the element to be search 3 Successful search Element is found at position 2 Enter Choice:2 Element are 45 12 3 Enter element to be search 12 Element is found at :2 Enter Choice:2 Element are 45 12 3 Enter element to be search 56 Element is not found: Enter Choice:3

```
Assignment Name: Implement Tower of Hanoi
Class: BCA-II
                                                     Lab: BCA 407(DS)
#include<iostream.h>
#include<conio.h>
class demo
     int n;
public:
     void tower(int,char,char,char);
     void get();
};
void demo::get()
     cout<<"\nEnter the number of disk: ";</pre>
     tower(n,'A','B','C');
void demo::tower(int n, char beg, char aux, char end)
     if(n!=0)
      {
           tower(n-1,beg,end,aux);
           cout<<"\n Move disk "<<n<<" from "<<beq<<" to "<<end<<"\n";
           tower(n-1, aux, beg, end);
}
void main()
     clrscr();
     demo d;
     d.get();
     getch();
*/ Output */
Enter the number of disk: 3
Move disk 1 from A to C
Move disk 2 from A to B
Move disk 1 from C to B
Move disk 3 from A to C
Move disk 1 from B to A
Move disk 2 from B to C
```

Move disk 1 from A to C

Assignment Name: Finding Factorial of Number

```
Class: BCA-II
                                                     Lab: BCA 407(DS)
#include<iostream.h>
#include<conio.h>
class factorial
     double n,f;
     public:
     void get();
     double fact (double);
};
void factorial::get()
     cout<<"\nEnter n";</pre>
     cin>>n;
     f=fact(n);
     cout<<"\n Factorial of "<<n<<" is "<< f;
double factorial::fact(double n)
     if(n==0)
      return 1;
     else
      return(n*fact(n-1));
}
void main()
     clrscr();
     factorial f;
     f.get();
     getch();
}
*/ Output */
Enter n 34
```

Factorial of 34 is 2.952328e+38