

## SORTING :-

→ int main ( )

```
{ int a[20], m, i, j, temp;
```

```
printf ("Enter the value of m: ");
```

```
scanf ("%d", &m);
```

```
printf ("Enter numbers: \n");
```

```
for (i=0; i<m; ++i)
```

```
scanf ("%d", &a[i]);
```

```
for (i=0; i<m; ++i)
```

```
{ for (j=i+1; j<m; ++j)
```

```
{ if (a[i] > a[j])
```

```
{
```

```
temp = a[i];
```

```
a[i] = a[j];
```

```
a[j] = temp;
```

```
}
```

```
}
```

```
}
```

```
printf ("\n Elements of array sorted in ascending order: \n");
```

```
for (i=0; i<m; ++i)
```

```
printf ("%d ", a[i]);
```

```
}
```

Ascending order

$a[i] > a[j]$

Descending order

$a[i] < a[j]$



## SORTING AN ARRAY IN ASCENDING & DESCENDING ORDER 2)

→ int main()

{  
int a[20], m, i, j, temp;

printf("Enter value of m: ");

scanf("%d", &m);

printf("Enter numbers: \n");

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

scanf("%d", &a[i]);

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

{  
for(j=0; j<m; j++)

{  
if(a[j] > a[i])

{

temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

}

printf("\n Elements of array sorted in ascending order: \n");

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

{  
for(j=0; j<m; j++)

{  
if(a[j] < a[i])

{

temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

printf("\n Elements of array sorted in descending order: \n");

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

{

printf("%d", a[i]);

}

}