

Display:

a) Pyramids:

i. All: Take an input n from the user and show the following pattern for n rows. (The following example is for n=4).

```
*
**
***
****
```

ii. Odd: Take an input n from the user and show the following pattern for n rows. (The following example is for n=4).

```
*
***
*****
*****
```

b) Odd diamond: Take an input n from the user and if n is odd then show the following pattern for n rows. (The following example is for n=5).

```
  *
 *  *
*    *
 *  *
  *
```

c) Penguins: Take an input n from the user. Then show n penguins as demonstrated in the following pattern. (The following example is for n=3).

```
<O <O <O
_()_ _()_ _()_
```

d) Odd X: Take an input n from the user and if n is odd then show the following pattern for n rows. (The following example is for n=5).

```
*      *
 *    *
  *
 *  *
*      *
```

e) Take an input n from user and show the following pattern. (The following example is for n=5).

```
*  **   ***   *****
```

(check the number of spaces in between)