a) Star pattern(Square)

```python
num = int(input("Enter number of rows of pattern: "))
for i in range (1, num+1):
    print(" * "*num)
print("\n")
```
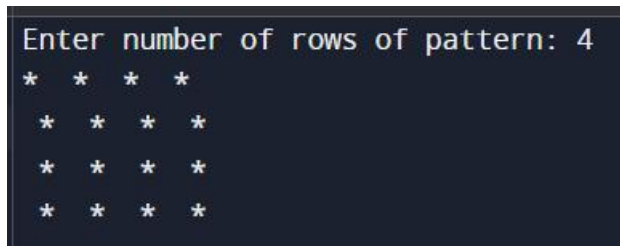
OUTPUT:-

```
Enter number of rows of pattern: 4
*   *   *   *
  *   *   *   *
  *   *   *   *
  *   *   *   *
```

b.)

```python
num=5
for i in range (1, num+1):
    for j in range (1, num+1):
        print(i,end=" ")
    print()
print("\n")
```
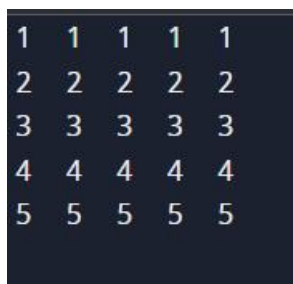
OUTPUT:-

```
1  1  1  1  1
2  2  2  2  2
3  3  3  3  3
4  4  4  4  4
5  5  5  5  5
```

c.)

```
num=int(input("Enter the number:"))
for i in range (1, num+1):
    for j in range (1, num+1):
        print(j,end=" ")
    print()
print("\n")
```
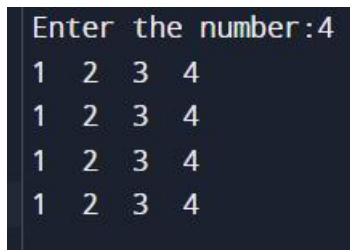
OUTPUT:-

```
Enter the number:4
1  2  3  4
1  2  3  4
1  2  3  4
1  2  3  4
```
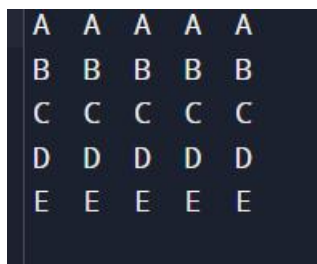
d.)

```
num=5
for i in range (1, num+1):
    for j in range (1, num+1):
        print(chr(64+i),end=" ")
    print()
print("\n")
```

OUTPUT:-

```
A  A  A  A  A
B  B  B  B  B
C  C  C  C  C
D  D  D  D  D
E  E  E  E  E
```
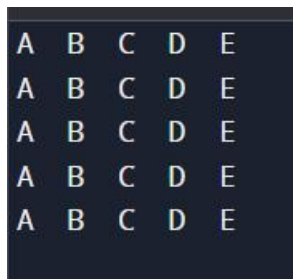
e.)

```
num=5
for i in range (1, num+1):
    for j in range (1, num+1):
        print(chr(64+j),end=" ")
    print()
print("\n")
```

OUTPUT:-

```
A  B  C  D  E
A  B  C  D  E
A  B  C  D  E
A  B  C  D  E
A  B  C  D  E
```

f.)

```
num=4
for i in range (1, num+1):
    for j in range (1, num+1):
        print(num+1-i,end=" ")
    print()
print("\n")
```
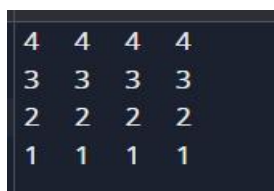
OUTPUT:-

```
4  4  4  4
3  3  3  3
2  2  2  2
1  1  1  1
```

g.)

```
num=4
for i in range (1, num+1):
    for j in range (1, num+1):
        print(num+1-j,end=" ")
    print()
print("\n")
```

OUTPUT:-

```
4   3   2   1
4   3   2   1
4   3   2   1
4   3   2   1
```

h.)

```
num=4
for i in range (1, num+1):
    for j in range (1, num+1):
        print(chr(65+num-i),end=" ")
    print()
print("\n")
```
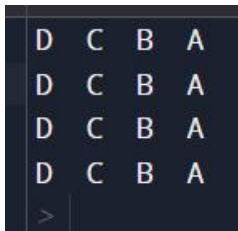
OUTPUT:-

```
D   D   D   D
C   C   C   C
B   B   B   B
A   A   A   A
```

i.)

```
num=4
for i in range (1, num+1):
    for j in range (1, num+1):
        print(chr(65+num-j),end=" ")
    print()
```
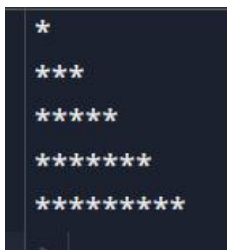
OUTPUT:-

```
D  C  B  A
D  C  B  A
D  C  B  A
D  C  B  A
>
```

j.)

```
rows = 5
for i in range(1, rows + 1):
    for j in range(rows - i):
        print(" ", end="")
    for k in range(2 * i - 1):
        print("*", end="")
    print()
```

OUTPUT:-

```
    *
   ***
  *****
 *******
*********
>
```

k.)

```python
rows = 5
for i in range(rows, 0, -1):
    for j in range(rows - i):
        print(" ", end="")
    for k in range(2 * i - 1):
        print("*", end="")
    print()
```

OUTPUT:-

```
*********
 *******
  *****
   ***
    *
>
```