

PYTHON ASSIGNMENT - 6

Question 1 –

```
# Question (a)
n = 5
for i in range(n):
    if i == 0 or i == n - 1:
        print("* " * n)
    else:
        print("* " + " " * (n - 2) + "*")
```

(variable) n: Literal[5]

Question 2 –

```
# Question (b)
k = 1
for i in range(1,5):
    for j in range(1,i+1):
        print(k,end=" ")
        k += 1
    print()
```

Question 3 –

```
# Question C

for i in range(1,5):
    for j in range(1,6-i):
        print(" ",end=" ")

    for j in range(1,i+1):
        if j==1 or j==i:
            print(" 1 ",end=" ")
        else:
            print("",i-1,"",end=" ")

    print()
```

Question 4 –

```
# Question D

n = 5 # Number of rows
for i in range(1, n + 1):
    for j in range(1, i + 1):
        print(chr(64 + j), end=" ")
    print()
```

Question 5 –

```
# Pattern (e)
for i in range(1,6):
    for j in range(1,7-i):
        print(" ",end=" ")

    for j in range(1,i+1):
        print("*",end=" ")

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

Question 6 –

```
# Q6
for i in range(1,6):
    for j in range(1, 7-i):
        print(" ", end=" ")
    for k in range(1,i+1):
        print(k, end=" ")
    p = k+1
    for j in range(2,i+1):
        print(p, end=" ")
        p += 1
    print()
```

Question 7 –

```
# Pattern (g)
for i in range(1,6):
    for j in range(1,7-i):
        print(" ",end=" ")

    s = 65
    for j in range(1,i+1):
        print(chr(s),end=" ")
        s += 1

    k = s
    for j in range(2,i+1):
        print(chr(k),end=" ")
        k += 1

    print()
```