```
# question 1
n = 5
for i in range(1, n + 1):
    for j in range(1, n - i + 1):
        print(" ", end=" ")
    for k in range(1, 2 * i):
        if i == n or k == 1 or k == 2 * i - 1:
            print("*", end=" ")
        else:
            print(" ", end=" ")
    print()
```

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

```
# question 2
arr = [1, 2, 3, 4, 5]
k = 2

k = k % len(arr)

result = arr[-k:] + arr[:-k]

print(result)
```

```
[4, 5, 1, 2, 3]
```

```
#  question 3
s = "hii deepak"
rev = ""
for i in range(len(s)-1, -1, -1):
    rev += s[i]
print(rev)
```

```
kapeed iih
```

```
# question 4
s = "bye deepak"
count = 0
vowels = "aeiouAEIOU"
for ch in s:
  if ch in vowels:
    count+= 1
print(count)
```

```
4
```

```
# question 5
li = [10, 25, 3, 47, 18]
largest = li[0]
for i in li:
    if i > largest:
        largest = i
second = -1
for i in li:
    if i != largest and i > second:
        second = i
print(second)
```

```
25
```

```
# question 6
a = "naman"
rev = ''
for i in range(len(a)-1,-1,-1):
  rev = rev + a[i]
if a == rev:
  print("palindrome")
else:
  print("not palindrome")
```

```
palindrome
```

```python
# question 7
li = [10,20,20,30,30,40,50,60,70,90]
duplicate = []
for i in li:
  if i not in duplicate:
    duplicate.append(i)
print(duplicate)
```

```
[10, 20, 30, 40, 50, 60, 70, 90]
```

```python
# question 8
li = [1,2,3,4,5,6,7,8,9,10]
even = 0
odd = 0
for i in li:
  if i % 2 == 0:
    even += i
  else :
    odd += i
print(even)
print(odd)
```

```
30
25
```

```python
# question 9
name = "deepak"
for i in name:
    count = 0
    for k in name:
        if i == k:
            count += 1
    print(i,count)
```

```
d 1
e 2
e 2
p 1
a 1
k 1
```

```python
# question 10
li = [1,0,3,0,5,0,7,0,9]
num = []
for i in li:
  if i != 0:
    num.append(i)
zero = len(li) - len(num)

for i in range(zero):
  num.append(0)
print(num)
```

```
[1, 3, 5, 7, 9, 0, 0, 0, 0]
```