# **Assginment:**

## Question:1

Write a python code for converting integer values to Indian currency notations, without using the currency libraries:

### Coding:-

Output:-

```
import decimal
def Currency_convertor(n):
d = decimal.Decimal(str(n))
# 1: For converting the N number of exponents to 2 exponents
if d.as_tuple().exponent < -2:</pre>
  s = str(n)
 else:
  s = '{0:.2f}'.format(n)
i = len(s)-1
# 2: Creating dummy variable
new_num, val, k = ",0,0
# 3: Converting the numbers
 #checking the value in reverse order
 while i \ge 0:
  if val==0:
   new_num = new_num + s[i]
  # 4: checking for decimal
   if s[i]=='.':
       val = 1
  # 5: Checking for the Thousand place
  elif val == 1:
   k = k + 1
   new_num = new_num + s[i]
   if k==3 and i-1>=0:
    new_num = new_num + ','
    val = 2
    k = 0
  #6: Checking the lakhs and crores places
  else:
   k = k + 1
   new_num = new_num + s[i]
   if k==2 and i-1>=0:
    new_num = new_num + ','
    val = 2
    k = 0
  i = i - 1
 return new_num[::-1]
```

#### **Explanation:-**

Created a function for converting a number into an Indian currency notation.

- I checked for decimal and converted it two digit.
- Then created a dummy variables to run the loop.
- Count the length of the number and run until decimal value starts.
- Checked for thousand Place.
- Checked for Lakhs and crores places.

## Question:2

You won't get caught if you hide behind someone."

Sang-Woo advises Gi-Hun to hide behind someone to avoid getting shot. Gi-Hun follows Sang-Woo's advice and hides behind Ali, who saved his life earlier. Gi-Hun and Ali

both have the same height, K

. Many players saw this trick and also started hiding behind Ali.

Now, there are N

players standing between Gi-Hun and Ali in a straight line, with the ith player having height Hi

. Gi-Hun wants to know the minimum number of players who need to get shot so that Ali is visible

in his line of sight.

Note:

• Line of sight is a straight line drawn between the topmost point of two objects. Ali is visible

to Gi-Hun if nobody between them crosses this line.

• Even if there are some players who have the same height as that of Gi-Hun and Ali, Ali will

be visible in Gi-Hun's line of sight.

• Gi-Hun and Ali have the same height.

Input Format

- The first line of input contains a single integer T
- , denoting the number of test cases. The description of T
- test cases follows.
- The first line of each test case contains two space-separated integers N and K
- , denoting the total number of players between Gi-Hun and Ali and the height of both of

them respectively.

- The second line of each test case contains N
- space-separated integers, denoting the heights of the players between Gi-Hun and Ali.

```
#Bigger_hight_person function
def Bigger_hight_person():
  T=int(input('Enter the Test cases '))
  val=[]
  for i in range(T):
     #Taking inputs
     N=[int(i) for i in input().split()]#for total number of peoples and hight of Gi-Hun and Ali
     K=[int(i) for i in input().split()]#for hight of npeoples
     v=0
     # comparing the heights from other persons
     for i in range(N[0]):
       if K[i]>N[1]:
          v=v+1
     val.append(v)
  for i in val:
     print(i)
```

## Output:-

```
In [4]: Bigger_hight_person()

Enter the Test cases3
4 10
2 13 4 16
5 8
9 3 8 8 4
4 6
1 2 3 4
2
1
0
```

## Explanation:-

Created a Function to count the shot persons because of height difference.

- Taken the input for test case
- for loop to take the input and n number of test case.
- Taken the inputs for total number of peoples and hight of Gi-Hun and Ali
- Run the for loop count the shot peples