Design Program design Main Steps: Pseudocode 1. Store the endings 2. Enter the number of students 3. Start fixed loop for each student 4. Enter first three letters of student's name 5. Generate random number 6. Generate username 7. Display the username 8. End Loop REFINEMENTS Start conditional loop 4.2 Get the first three letters of student's name 4.3 If the length of the name is not equal to 3 then 4.4 Display an error message 4.5 End If Repeat until the name entered is 3 characters long If the first random number was generated add the first stored ending to the end of the first three letters of the student's name If the second random number was generated add the second stored ending to the end of the first three letters of the student's name 6.3 If the third random number was generated add the third stored ending to the end of the first three letters of the student's name

If the fourth random number was generated add the fourth stored ending to the

If the fifth random number was generated add the fifth stored ending to the end of

end of the first three letters of the student's name

the first three letters of the student's name

Implementation

```
1 #2019 Example Solution
3
    endings=[""]*5
   noOfStudents =0
    partName ="'
   randomNo =0
    userName = ""
8
9
    import random
10
11 #Store Endings
12 endings[0]="ing"
   endings[1]="end"
14 endings[2]="axe"
   endings[3]="gex"
16
   endings[4]="goh"
17
18
   #Enter the number of students
    noOfStudents=int(input("Enter the number of students"))
20
   #Start fixed loop for each student
22 * for counter in range(noOfStudents):
23
24
      #Enter and validate first 3 letters of name
25
      partName = input("Please enter first 3 letters of student name")
26 -
      while len(partName)!=3:
27
        partName = input("Re-enter only the first 3 letters")
28
29
      #Generate random number between 0 and 4 to pick random ending
30
      randomNo = random.randint(0,4)
31
32
      #Generate username - concatenate name to random ending
33
      userName = partName + endings[randomNo]
34
35
      #Display each username
36
      print("Student " + str(counter + 1)+ ":" + userName)
37
38
   #End loop
39
```