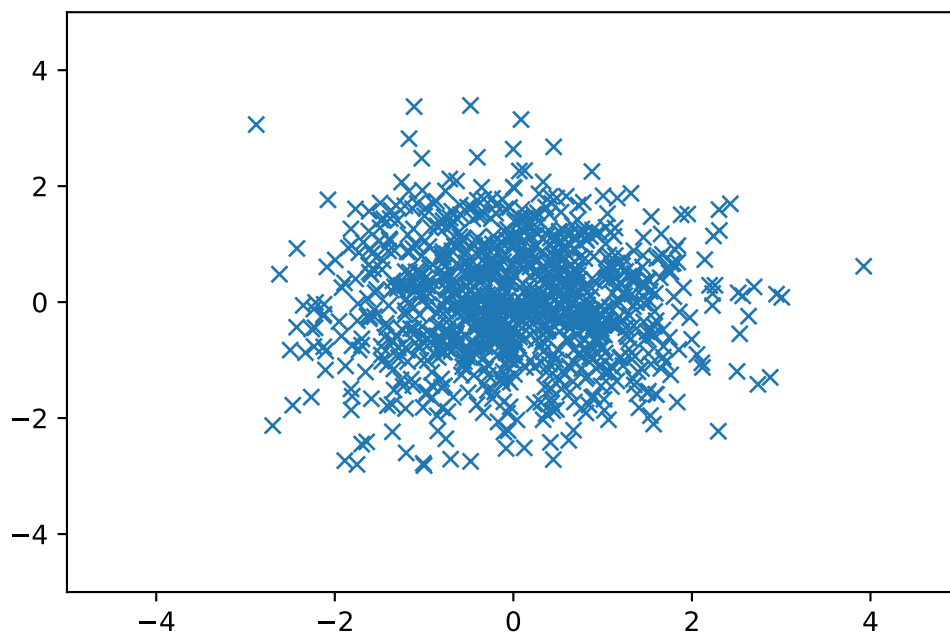
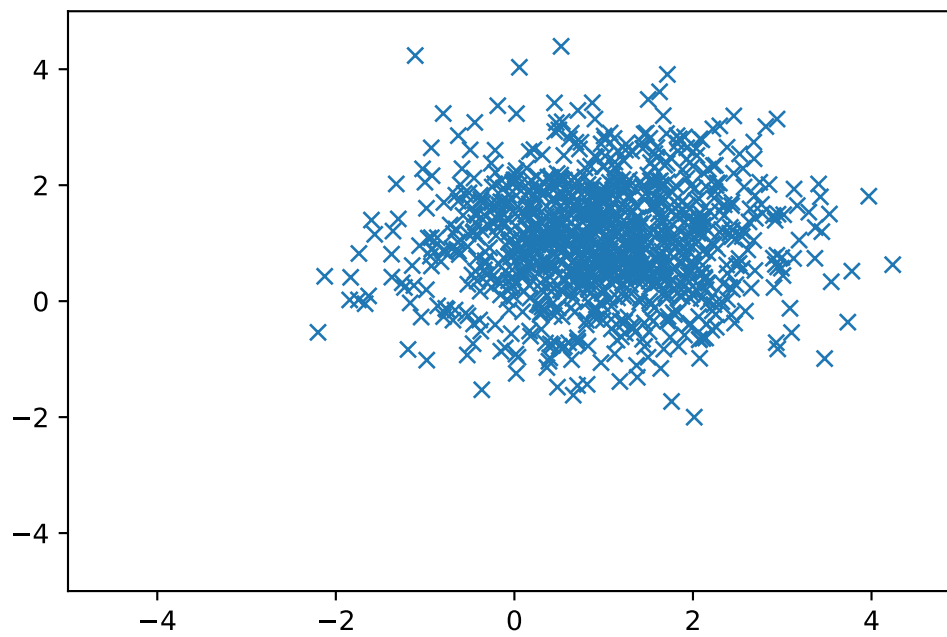


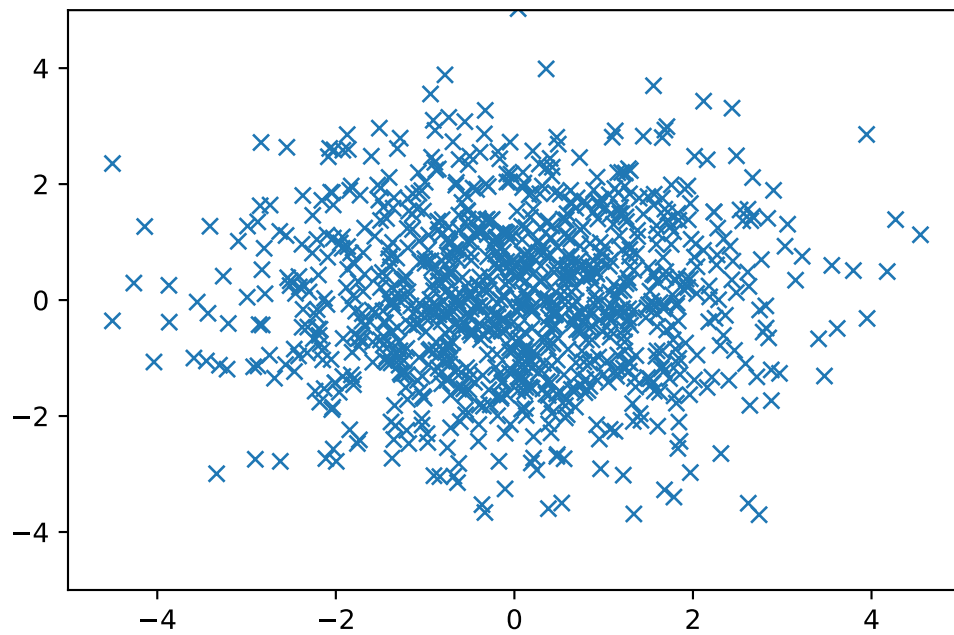
10)



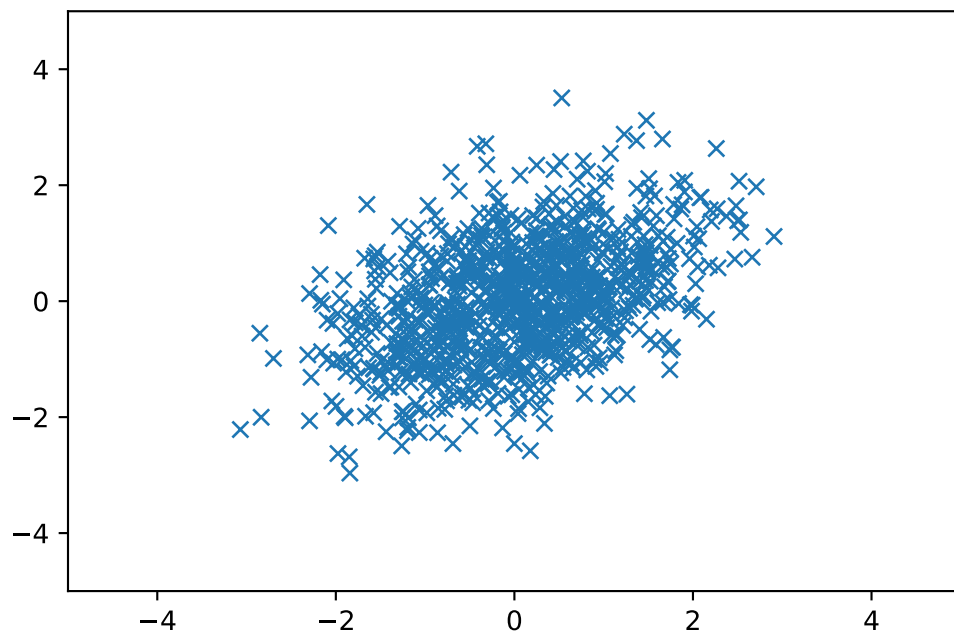
a)



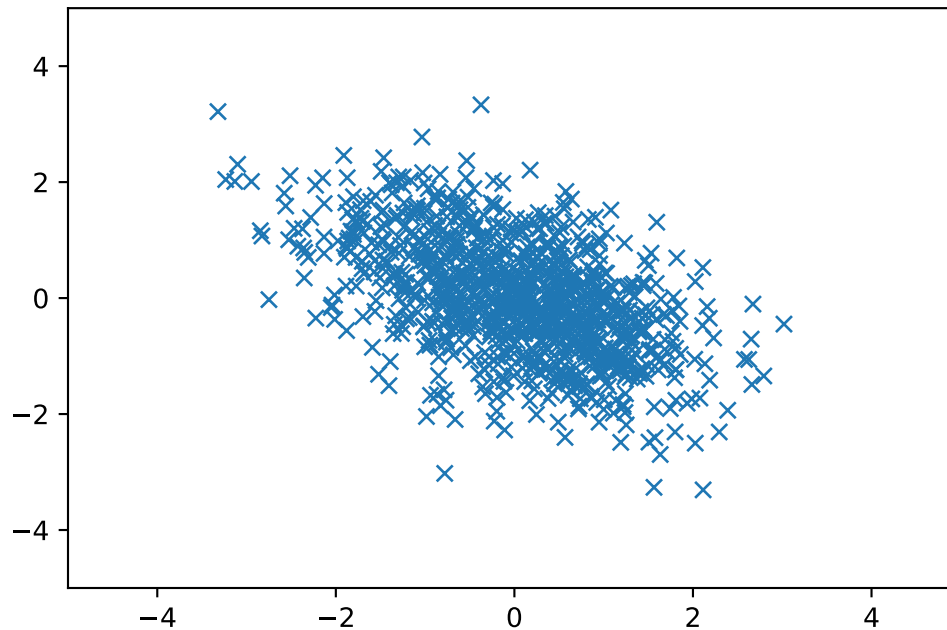
b) The scatterplot shifts to the right.



c) The scatterplot is more spread out.



d) The scatterplot is skewed diagonally.



e) The scatterplot is skewed diagonally in the reverse direction.

11) largest eigenvalue: 3
largest eigenvector: $[0, 1]$

12)

a) Indian Movie Face database

b) <http://cvit.iit.ac.in/projects/IMFDB/>

c) The dataset is a collection of images of actors consisting of varied actors, expressions, ages and makeup. The age of the given actor is being predicted.

d) There are 34512 images.

e) The features are a unique ID of the image and the age of the person.