```
fig = plt. figure ()
ax = plt. axes (projection = '3d')
ax. contour 3D (sex, age, chol, 50, cmap = 'binary')
 ax.set_x label ('sex')
 ax. set_y label ('age!)
 ax. set_ z label ('chol');
 data - heart. dtypes
 data-heart. count ()
 data_heart. hist ( 'target')
 Sns. joinplot (x='target', y='age', data= data_heart)
  Sns. boxplot (x ='scx', y='age', data = data_heart)
  Shs. violinplot (x = 'sex', y = 'age', data = data-heart)
  my_dict = { 'age': 30, 'cp': 65, 'Sex': 50, 'chol': 80}
    for i, k in my_dict. icems():
   of the oprint of it, k) and the option of the more and
          ple x label (x-axis)
       plt. y label ('y-akin')
       plt. Show ()
```

Problem Solving Using Python and R Lab Lab14. Animated Data Visualization using R

In this lab, you will use R language and gganimate package to plot various animated charts using the sample dataset available in R language itself.

Question1. Visualize animated bar chart, line chart and scatter plot using R and gganimate package.

Reference: https://www.r-graph-gallery.com/animation.html

```
Library (gapminder)
library (ggplot2)
library ( gganimate)
 gapminder
 dim (gapminder)
 Str ( gapminder)
 ggplot (gapminder, aes (gdppercap)) + geom-histogram ()
  # datset
  # aenthetic-aesc)
  # geometry -geomc)
  # facet - Subplots
  # Scatterplot
   agplot ( gapminder, aus ( gappercap, life Exp, size = pop))+
       geom-point (aes (color = continent) Show. legend = False)+
        scale - X - log 10 ()+
        facet- wrap (continent ~.)+
        Labs (title = 'Year: [frame_time]', x = 'GDP per capita'
        transition_time (year) + lase_aes ('linear')
Department of Data Science | Bishop Heber College (Auto) | Tiruchirappalli
  # anim < -animate (P)
  # magick: image_write (anim, path = "myanimation . gif")
```