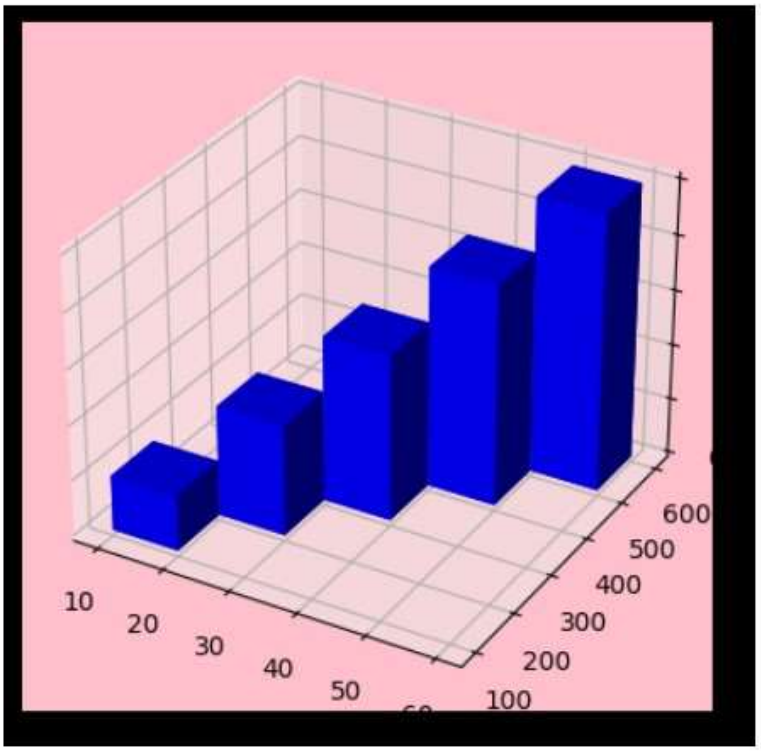
NAME :- HARSH PILLAI CLASS :- SYIT C ROLL NO :- 6243

PRACTICAL 8

- Create a 3Dbar for a smaple data

```
import matplotlib.pyplot as plt fig=plt.figure
(facecolor='k') axl=fig.add_subplot
(111,projection='3d') xpos=[10,20,30,40,50]
ypos=[100,200,300,400,500] zpos=[0,0,0,0,0]
dx=[10,10,10,10,10] dy=[100,100,100,100,100]
dz=[1,2,3,4,5]
axl.bar3d(xpos,ypos,zpos,dx,dy,dz,color="blue")
axl.set_facecolor("pink") plt.show() Output :
```



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PRACTICAL 9

- Demonstrate some matpotlib animations

```
import matplotlib.pyplot as plt
import pandas as pd
from matplotlib.animation import FuncAnimation data =
pd.read_csv("C:/Users/Student/Desktop/file1.csv")
xdata,ydata=[],[] fig,ax=plt.subplots() ln, = plt.plot([],[],'r')
ax.set_xlim(data['x'].min(),data['x'].max())
ax.set_ylim(data['y'].min(),data['y'].max())
def init():  ln.set_data([],[])  return ln,
def update(frame):
  xdata.append(data['x'][frame])
ydata.append(data['y'][frame])
  ax.fill_between(xdata,y1=0,y2=ydata,color='b',alpha=0.3)
ln.set_data(xdata,ydata)  return ln,
ani = FuncAnimation(fig,update,frames=range(len(data)),init_func=init,
            interval=100,blit=True)
ani.save("C:/Animation/Ani1.gif",writer="pillow")
plt.show() Output :
```

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