# Code -

PRACTICAL 9

Write a program for A/D Conversion

import math

flag\_levels = True while(flag\_levels):

try:

number\_of\_levels = int(input("Please Enter Number of Levels : ")) flag\_levels = False

except:

print("----------- Please Enter Valid Input ")

flag\_max\_volt = True while(flag\_max\_volt):

try:

maximum\_voltage = int(input("Please Enter Maximum Voltage : ")) flag\_max\_volt = False

except:

print("----------- Please Enter Valid Input ")

flag\_min\_volt = True while(flag\_min\_volt):

try:

min\_voltage = int(input("Please Enter Minimum Voltage : ")) flag\_min\_volt = False

except:

print("----------- Please Enter Valid Input ")

while(True):

flag\_sampled\_value = True while(flag\_sampled\_value):

try:

"))

print("")

sampled\_value = float(input("Please Enter Sampled Value :

flag\_sampled\_value = False except:

print("----------- Please Enter Valid Input ")

d = (maximum\_voltage - min\_voltage)/number\_of\_levels normalised\_value = sampled\_value/d

quantised\_value = math.floor(normalised\_value) + 0.5 quantised\_code = quantised\_value + ((number\_of\_levels/2)-0.5) print("Digital data is : " , format(int(quantised\_code),"b") )

# Screenshot of Output -

