class Mobile:

def \_\_init\_\_(self, mno):

self.\_\_mobileno = mno

def software(self):

temp = self.\_\_mobileno

i=0

while temp>0:

i= i+1

temp=temp//10

if i==10:

n = self.\_\_mobileno

while n >= 10 :

n=n//10

if n==7 or n==8:

return 1

else:

return 0

def callconnect(self):

flag = self.software()

if flag == 1 :

print("Call connected")

elif flag == 0:

print("Number is not of 10 digits")

else:

print("Called failed, Incorrect number!")

mobnum = input("Enter 10 digit mobile number : ")

if mobnum.isdigit():

mobnum=int(mobnum)

mob1=Mobile(mobnum)

mob1.callconnect()

else:

print("Enter only numbers")

Question 2:

class Train:

def \_\_init\_\_(self,tno,cot,sstat,estat):

self.\_\_trainno = tno

self.\_\_category\_of\_travel= cot

self.\_\_start\_station = sstat

self.\_\_end\_station = estat

self.\_\_train\_route\_dict = {} # train route stored in dictionary = { trainno(key) : [start\_station,end-station] }

self.\_\_total\_booking = None

self.\_\_total\_rac = None

self.\_\_total\_waiting = None

def validate\_train(self,tno,sstat,estat):

pass

class RailwaySystem(Train):

def \_\_init\_\_(self,pname,paddress,pno,cot,trainno,startstat,endstat):

self.\_\_passenger\_name=pname

self.\_\_passenger\_address=paddress

self.\_\_phone\_no=pno

super.\_\_init\_\_(self,trainno,cot,startstat,endstat)

self.\_\_booking\_amount = [] # list of amount based on category of travel

self.\_\_rac\_list=[]

self.\_\_waitlist=[]

self.\_\_booking\_list=[]

def Booking(self,pname,paddress,pno,cot,trainno,startstat,endstat):

self.\_\_init\_\_(pname,paddress,pno,cot,trainno,startstat,endstat)

self.validate\_train(tno,sstat,estat)

if self.check\_booking():

# add passenger name in booking list and show amount

pass

elif self.check\_rac():

# add passenger name in rac list and show amount

pass

elif self.check\_waitlist():

# add passenger name in the waitlist and show amount

pass

else:

# Refuse booking

pass

def check\_booking(self):

pass

def check\_rac(self):

pass

def check\_waitlist(self):

pass

def cancelation(self,pname,paddress,pno,cot,trainno,startstat,endstat):

self.\_\_init\_\_(pname, paddress, pno, cot, trainno, startstat, endstat)

#remove passenger name from rac\_list or waitlist and refund booking amount