Problem 1:

(A)

def pypart2(n):

k = 2\*n - 2

for i in range(0, n):

for j in range(0, k):

print(end=" ")

k = k - 2

for j in range(0, i+1):

print("\* ", end="")

print("\r")

n = 5

pypart2(n)

(B)

def contalpha(n):

num = 65

for i in range(0, n):

for j in range(0, i+1):

ch = chr(num)

print(ch, end=" ")

num = num +1

print("\r")

n = 5

contalpha(n)

Problem 2:

while True:

try:

bg = float(input("Enter your budget : "))

s = bg

except ValueError:

print("PRINT NUMBER AS A AMOUNT")

continue

else:

break

a ={"name":[], "quant":[], "price":[]}

b = list(a.values())

na = b[0]

qu = b[1]

pr = b[2]

while True:

try:

ch = int(input("1.ADD\n2.EXIT\nEnter your choice : "))

except ValueError:

print("\nERROR: Choose only digits from the given option")

continue

else:

if ch == 1 and s>0:

pn = input("Enter product name : ")

q = input("Enter quantity : ")

p = float(input("Enter price of the product : "))

if p>s:

print("\nCAN'T BUY THE PRODUCT")

continue

else:

if pn in na:

ind = na.index(pn)

qu.remove(qu[ind])

pr.remove(pr[ind])

qu.insert(ind, q)

pr.insert(ind, p)

s = bg-sum(pr)

print("\namount left", s)

else:

na.append(pn)

qu.append(q)

pr.append(p)

s = bg-sum(pr)

print("\namount left", s)

elif s<= 0:

print("\nNO BUDGET")

else:

break

print("\nAmount left : Rs.", s)

if s in pr:

print("\nAmount left can buy you Wheat", na[pr.index(s)])

print("\n\n\nGROCERY LIST")

for i in range(len(na)):

print(na[i], qu[i], pr[i])