Python programming basic assignment 21:

Q1) def next\_in\_line(listn, n):

listn.append(n)

listn.pop(0)

return listn

print(next\_in\_line([5,6,7,8,9],1))

print(next\_in\_line([7,6,3,23,17],10))

print(next\_in\_line([1,10,20,42],6))

print(next\_in\_line([],6))

Q2) def get\_budgets(list):

dict1 = {}

dict2 = {}

dict3 = {}

dict1 = list[0]

dict2 = list[1]

dict3 = list[2]

for i in dict1.keys():

if i == "budget":

for j in dict2.keys():

if j == "budget":

for k in dict3.keys():

if k == "budget":

sum = dict1[i] + dict2[j] + dict3[k]

return sum

print(get\_budgets([{"name":"John", "age":21, "budget":23000},

{"name":"Steve", "age":32, "budget":40000},

{"name":"Martin", "age":16, "budget":2700}]))

print(get\_budgets([{"name":"John", "age":21, "budget":29000},

{"name":"Steve", "age":32, "budget":32000},

{"name":"Martin", "age":16, “budget":1600}]))

Q3) def alphabet\_soup(string):

a = ''.join(sorted(string))

return str(a)

print(alphabet\_soup("hello"))

print(alphabet\_soup("edabit"))

print(alphabet\_soup("hacker"))

print(alphabet\_soup("geek"))

print(alphabet\_soup(“javascript"))

Q4) def inv\_value(p, y, i, n):

v = p\*(1+(i/n))\*\*(n\*y)

v2 = round(v, 2)

return v2

print(inv\_value(10000,10,0.06,12))

print(inv\_value(100,1,0.05,1))

print(inv\_value(3500,15,0.1,4))

print(inv\_value(100000,20,0.15,365))

Q5) def ret\_int(list):

list2 = []

for i in list:

if type(i) == int:

list2.append(i)

return list2

print(ret\_int([9,2,"space","car","lion",16]))

print(ret\_int(["hello",81,"basketball",123,"fox"]))

print(ret\_int([10,"121",56,20,"car",3,"lion"]))

print(ret\_int([“String",True,3.3,1]))