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**ACM 114 – Introduction to Computer Science and Programming**

**Final Exam (Answer Sheet)**

**Solution to Question 1:**

küçük\_harf = 'abcdefghijklmnopqrstuvwxyz'

basamak = '0123456789'

#userid=aa49

user\_id=""

all\_user\_id=[]

for i in küçük\_harf:

user\_id=user\_id+i

for t in küçük\_harf:

user\_id=user\_id+t

break

for x in basamak:

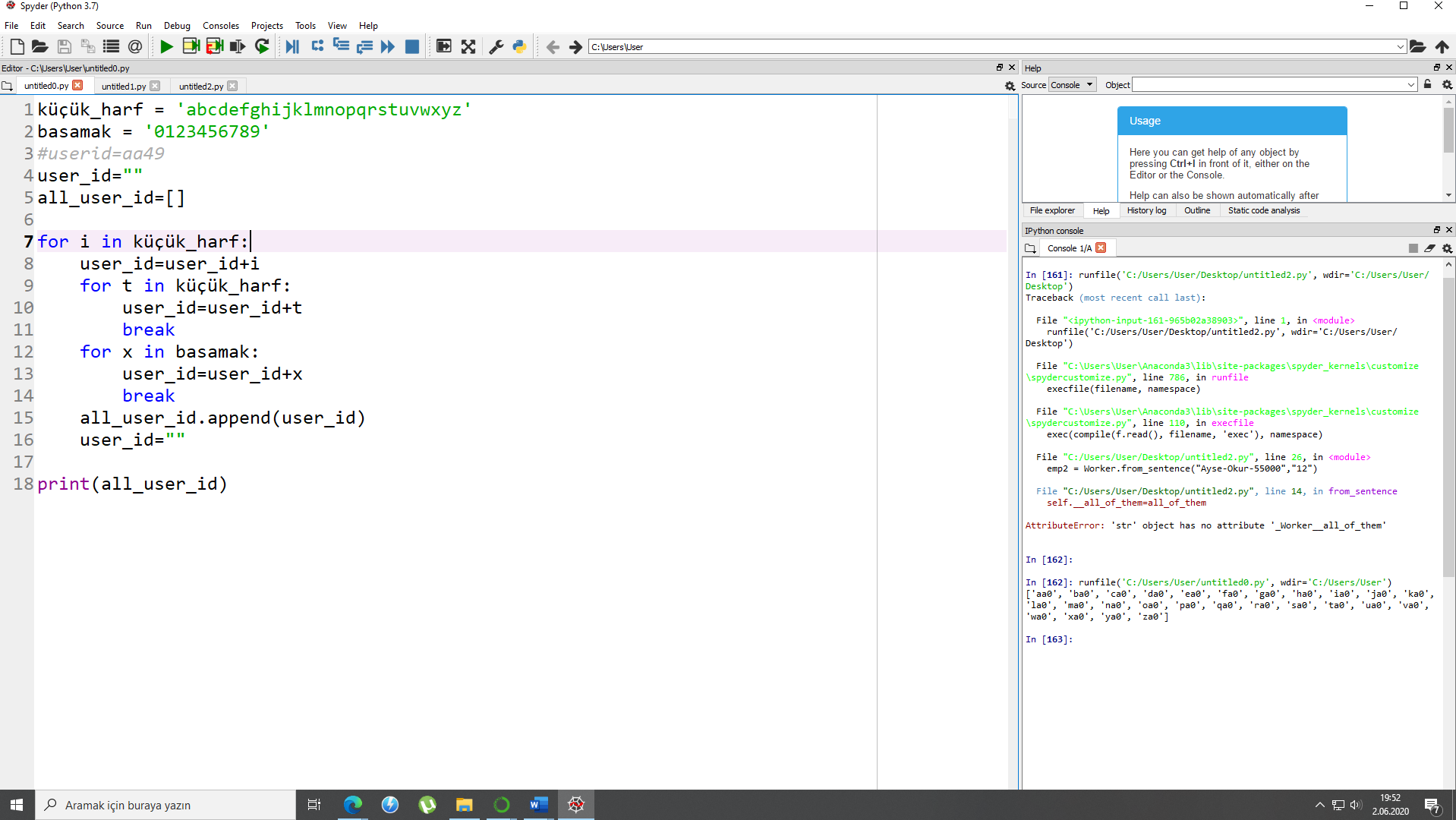
user\_id=user\_id+x

break

all\_user\_id.append(user\_id)

user\_id=""

print(all\_user\_id)



**Solution to Question 2:**

def enc\_alphabet(txt):

d= {"A":".-","B":"-...","C":"-.-.","D":"-..","E":".","F":"..-.","G":"--.","H":"....","I":"..","J":".---","K":"-.-","L":".-..","M":"--","N":"-.","O":"---","P":".--.","Q":"--.-","R":".-.","S":"...","T":"-","U":"..-","V":"...-","W":".--","X":"-..-","Y":"-.--","Z":"--.."," ":"....."}

txt=list(txt)

new\_text=[]

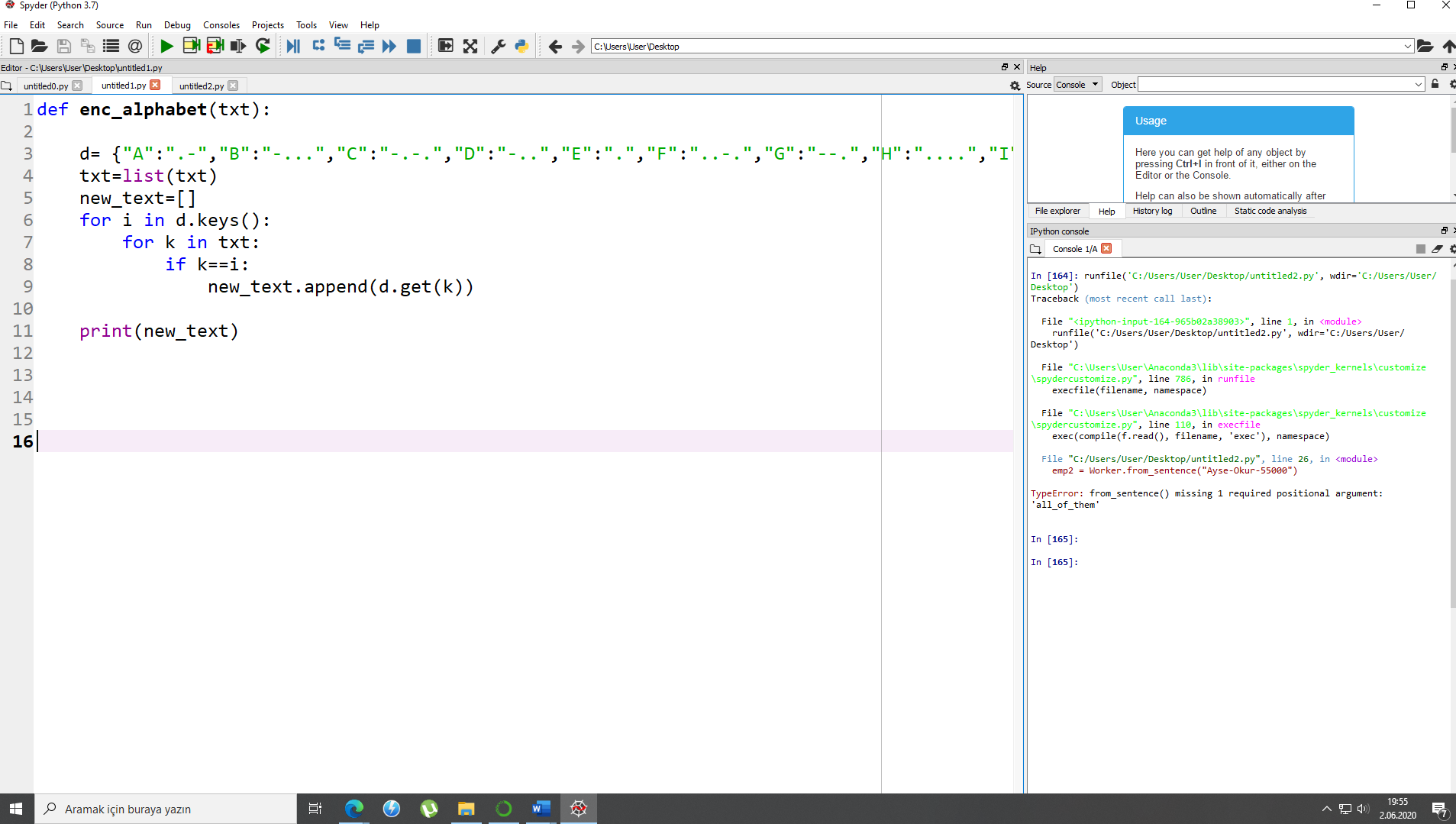
for i in d.keys():

for k in txt:

if k==i:

new\_text.append(d.get(k))

print(new\_text)



**Solution to Question 3:**

class Worker:

\_\_f\_name=None

\_\_l\_name=None

\_\_salary=None

\_\_all\_of\_them=None

def \_\_init\_\_(self,f\_name,l\_name,salary):

self.\_\_f\_name=f\_name

self.\_\_l\_name=l\_name

self.\_\_salary=salary

def from\_sentence(self,all\_of\_them):

self.\_\_all\_of\_them=all\_of\_them

all\_list=all\_of\_them.split("-")

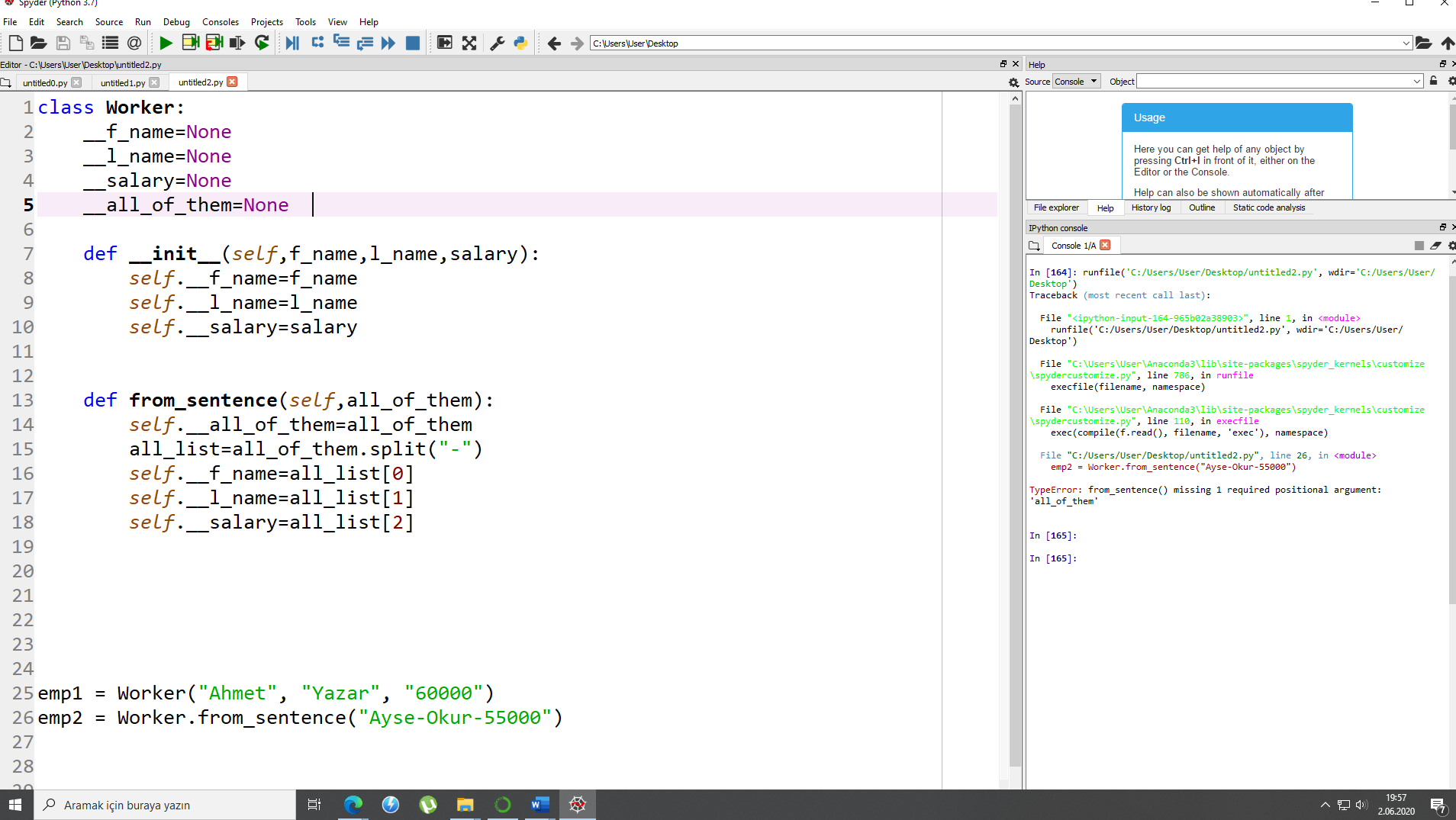
self.\_\_f\_name=all\_list[0]

self.\_\_l\_name=all\_list[1]

self.\_\_salary=all\_list[2]

emp1 = Worker("Ahmet", "Yazar", "60000")

emp2 = Worker.from\_sentence("Ayse-Okur-55000")



**Solution to Question 4:**

perfects=[]

for i in range(1,10000):

sum=0

bolen=1

while bolen < i:

if not i % bolen:

sum=sum+bolen

bolen = bolen + 1

if sum==i:

perfects.append(i)

print(perfects)

