

**O‘zbekiston Respublikasi Mudofaa Vazirligi**

**axborot-kommunikatsiya texnologiyalari va**

**aloqa harbiy instituti**

**Tarmoq va axborot tizimlari xavfsizligi kafedrasi**

**1 – AMALIY TOPSHIRIQ**

**Bajardi: Turdibekov SH.**

**9 – Variant.**

**1 – masala.** Uchta son berilgan. Shu sonlarni avval kichigini keyin kattasini ekranga chiqaruvchi programma tuzilsin.

def kichik\_va\_katta(a, b, c):

kichik = min(a, b, c)

katta = max(a, b, c)

return kichik, katta

son1 = float(input("1-sonni kiriting: "))

son2 = float(input("2-sonni kiriting: "))

son3 = float(input("3-sonni kiriting: "))

kichik, katta = kichik\_va\_katta(son1, son2, son3)

print(f"Kichik son: {kichik}")

print(f"Katta son: {katta}")

**2 – masala.** N butun soni berilgan(n>0). Bir sikldan foydalangan holda quyidagi yig’indini hisoblovchi programma tuzilsin.

**1!+2!+3!+...+N!**

def faktorial(n):

if n == 0 or n == 1:

return 1

else:

f = 1

for i in range(2, n + 1):

f \*= i

return f

def faktoriallar\_yigindisi(n):

yigindi = 0

for i in range(n + 1):

yigindi += faktorial(i)

return yigindi

n = int(input("n ni kiriting: "))

yigindi = faktoriallar\_yigindisi(n)

print(f"0 dan {n} gacha bo'lgan sonlar faktoriallari yig'indisi: {yigindi}")

**3 – masala.** Satr berilgan. Satrdagi katta lotin harflari sonini aniqlovchi programma tuzilsin.

def katta\_harflar\_soni(matn):

count = 0

for harf in matn:

if harf.isupper():

count += 1

return count

matn = input("Matnni kiriting: ")

katta\_harflar = katta\_harflar\_soni(matn)

print(f"Katta harflar soni: {katta\_harflar}")