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2022 Moscow, Russia

RUDN University, Moscow, Russian Federation







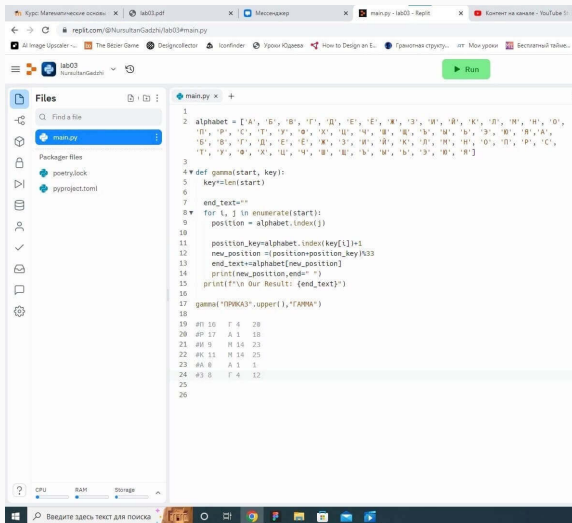
1.

.



gamma

. ( . 1)

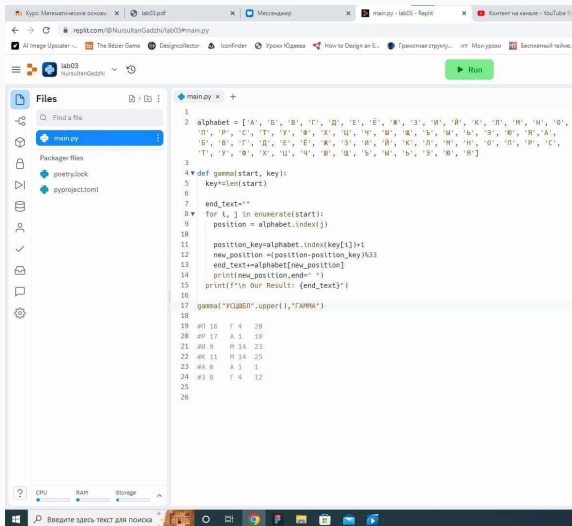


```
1
2 alphabet = ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z', 'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z']
3
4 def gamma(start, key):
5     key=len(start)
6
7     end_text=""
8     for i, j in enumerate(start):
9         position = alphabet.index(j)
10
11         position_key=alphabet.index(key[i])
12         new_position = position+position_key%33
13         end_text+=alphabet[new_position]
14         print(new_position,end=" ")
15     print(f"\n Our Result: {end_text}")
16
17 gamma("ПРВКАЗ",upper(),"АВВВ")
18
19 #П 10 Г 4 20
20 #Р 17 А 1 18
21 #В 9 М 14 23
22 #К 11 М 14 25
23 #А 8 А 1 1
24 #З 8 Г 4 12
25
26
```

Figure 1:

gamma

. ( . 2)

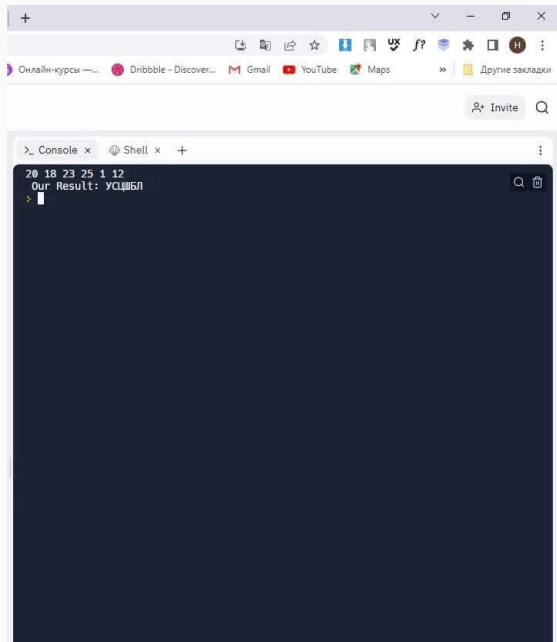


```
1
2 alphabet = ['А', 'Б', 'В', 'Г', 'Д', 'Е', 'Ё', 'Ж', 'З', 'И', 'Й', 'К', 'Л', 'М', 'Н', 'О', 'П', 'Р', 'С', 'Т', 'У', 'Ф', 'Х', 'Ц', 'Ч', 'Ш', 'Щ', 'Ъ', 'Ь', 'Э', 'Ю', 'Я', 'а', 'б', 'в', 'г', 'д', 'е', 'ё', 'ж', 'з', 'и', 'й', 'к', 'л', 'м', 'н', 'о', 'п', 'р', 'с', 'т', 'у', 'ф', 'х', 'ц', 'ч', 'ш', 'щ', 'ъ', 'ь', 'э', 'ю', 'я']
3
4 def gamma(start, key):
5     key %= len(start)
6
7     end_text = ""
8     for l, j in enumerate(start):
9         position = alphabet.index(j)
10
11         position_key = alphabet.index(key[j]) + 1
12         new_position = (position - position_key) % 33
13         end_text += alphabet[new_position]
14         print(new_position, end=" ")
15     print(f'\n Our Result: {end_text}')
16
17 gamma("УЧУЩЕГО".upper(), "ГАММА")
18
19 #1 16  Г 4 28
20 #P 17  А 1 18
21 #I 9  Н 14 23
22 #K 11  Н 14 25
23 #A 8  А 1 1
24 #3 8  Г 4 12
25
26
```

Figure 2:







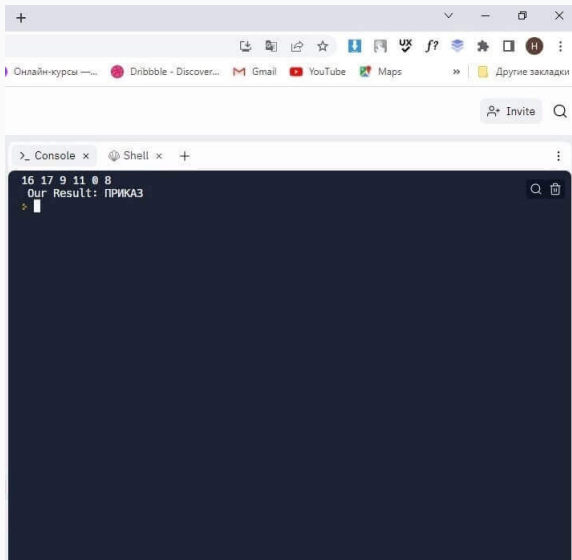


Figure 4:



