



sample_1920x1280.gif

BMP, 7 MB → 2 MB



sample_1920x1280.jpg

BMP, 7 MB → 1 MB



sample_1920x1280.png

BMP, 7 MB → 5 MB

+ Add More



Share Photos with Clients >



1 File Conflict

Which files do you want to keep?

If you select both versions, the moved file will have a number added to its name.

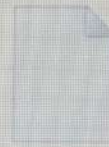
Files from Desktop

Files already in `zadania_studio`

sample_1920x1280.7z



11/5/2024 7:10 PM
4.84 MB



11/5/2024 7:09 PM
4.55 MB

Skip 0 files with the same date and size

Continue

Cancel



zakończona!

onwertowany plik

SKOŃCZONE

JPEG / 1.04 MB

Pobier

y. Możesz je usunąć ręcznie w zakładce [Moje pliki](#)

ertuj więcej plików



4.6



Current File ▾ ▶ ⚙ ⋮

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zad05.py ×

```
1 import random
2 import string
3
4 tekst = ''.join(random.choices(string.ascii_letters + string.digits + " ", k=100000))
5
6 with open("plik.txt", "w") as file:
7     📢 file.write(tekst)
8
```

I

Wstęp do inf

Zad. 2

a) PNG \Rightarrow stopień kompresji: $\frac{7 \text{ MB}}{5 \text{ MB}} = 1,4 \text{ MB}$

b) JPEG \Rightarrow $\frac{7 \text{ MB}}{1,04 \text{ MB}} = 6,73 \text{ MB}$

c) GIF \Rightarrow $\frac{7 \text{ MB}}{2 \text{ MB}} = 3,5 \text{ MB}$

$$c) G/F \Rightarrow \frac{+17D}{2MB} = 3,5MB$$

Zad. 3

$$H = - \sum_{i=1}^n p_i \cdot \log_2(p_i)$$

$$n=2$$

$$p_i = \frac{1}{2}$$

$$H = - \left(\frac{1}{2} \cdot \log_2\left(\frac{1}{2}\right) + \frac{1}{2} \cdot \log_2\left(\frac{1}{2}\right) \right)$$

$$\log_2\left(\frac{1}{2}\right) = -1$$

$$H = - \left(\frac{1}{2} \cdot (-1) + \frac{1}{2} \cdot (-1) \right)$$

$$H = - \left(-\frac{1}{2} - \frac{1}{2} \right) = -(-1) = 1$$