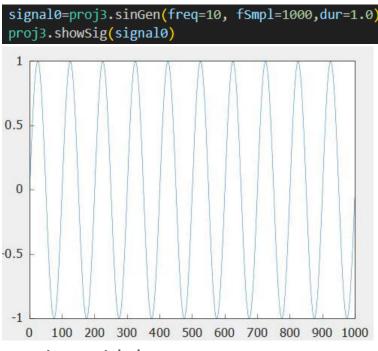
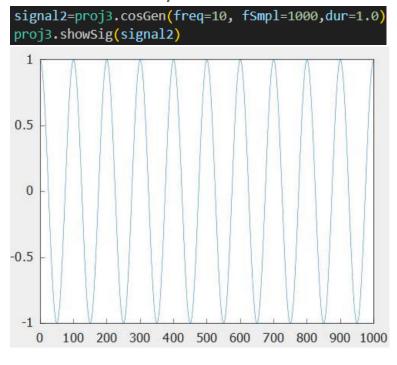
# Techniki Programowania, Projekt 3

Michał Stępski 204162 Wiktor Woźniak 203819

Generacja i wizualizacja sygnałów -sinusoidalny

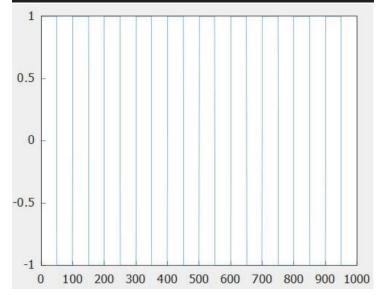


-cosinusoidalny



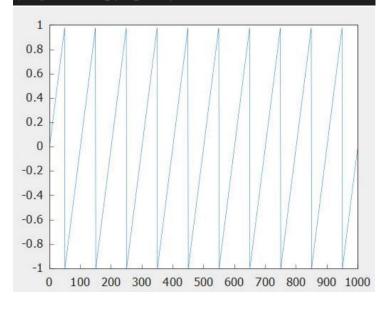
# -prostokątny





## -piłokształtny

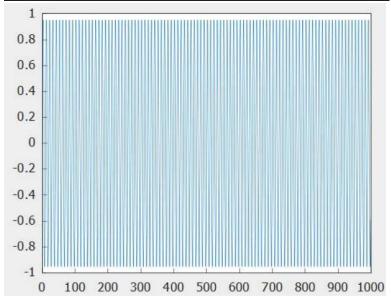
# signal4=proj3.sawGen(freq=10, fSmpl=1000,dur=1.0) proj3.showSig(signal4)



#### 2. DFT i odwrotna

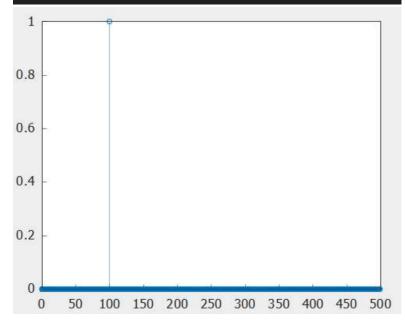
### -sygnał do transformowania

signal1=proj3.sinGen(freq=100, fSmpl=1000,dur=1.0)
proj3.showSig(signal1)



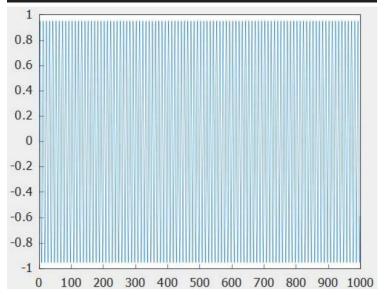
-DFT

transform = proj3.DFT(signal1)
proj3.showTransf(dft=transform, fSmpl=1000)



#### -transformata odwrotna

# untransform=proj3.rDFT(transform) proj3.showSig(untransform)



### 3. Filtracja 1D

-filtr i sygnał

```
signal = [5,6,8]
filter=[-1,0,1]
result = proj3.DF(signal, filter)
print(result)
```

-wynik