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- 1) Quantisation
- 2) 150 × 150 × 8 lits = 22500 bytis
- 3) For  $\Delta t = 0.1$ , we can get 11 samples (0, 0.1, ..., 0.9,1)For  $\Delta t = 0.5$ , we can get 3 samples (0, 0.5, 1)

TRUE 4)  $\frac{1}{4}$ ,  $\frac{1}{4}$  =  $\frac{1}{4}$ 

When phase =0 is k=l, they have no effect an onthogonality

s) TRUE, bollowing question 1, by (m)= e j 27 km/, Lestin = 1

ling unit basis of a 1D DFT, we can say that

lains to DFT are can be orthonormal.

$$-2j\pi(3x+3y)/4 = e^{-\frac{13\pi}{2}(x+y)}$$

$$0 - (x, y) = \begin{bmatrix} 1 & \dot{y} & -1 & -\dot{y} \\ \dot{y} & -1 & -\dot{y} & 1 \\ -1 & -\dot{y} & 1 & \dot{y} \\ -\dot{y} & 1 & \dot{y} & -1 \end{bmatrix}$$

Mold-al aci

Basis: e jett (ux+vy)

$$b(x,y) = \begin{bmatrix} 5 & -2+3j & -1 & -2-3j \\ +5j & -3-2j & -j & 3-2j \\ -5j & 2-3j & 1 & 2+3j \\ & 3+2j & j & -3+2j \end{bmatrix}$$

10) The program prints the no. of pinals with intensity 255 (
2 vo. of pixels with intensity o (L)