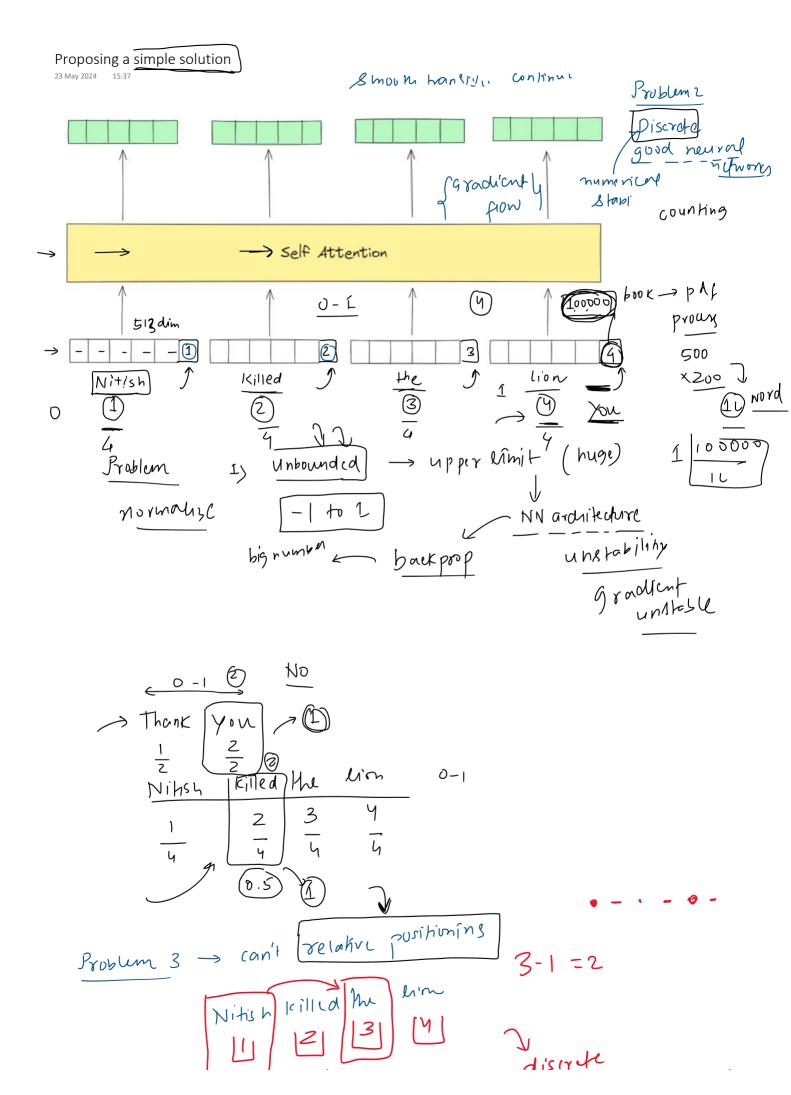
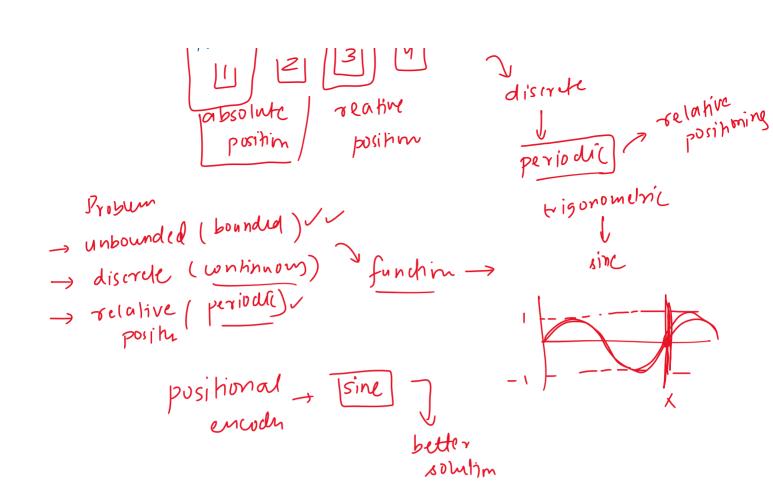
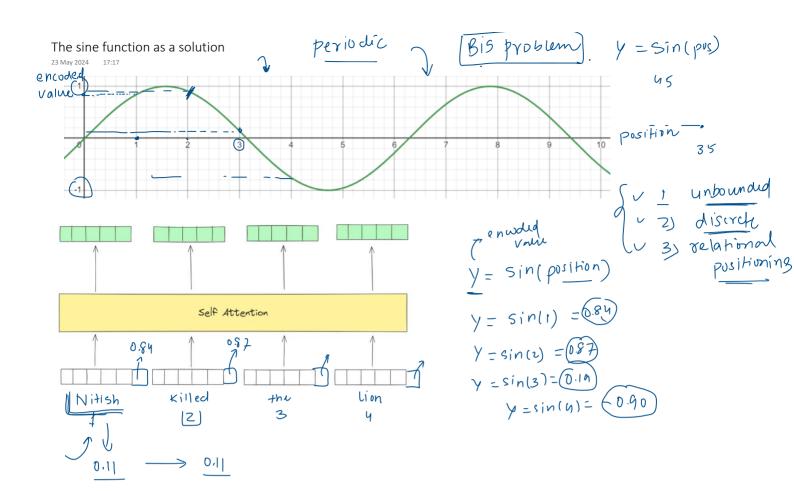


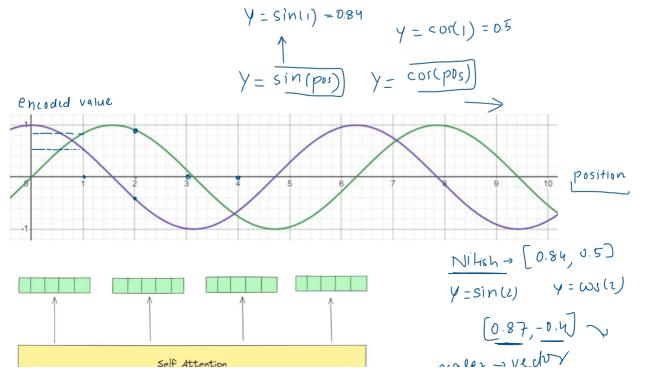
b Cnk

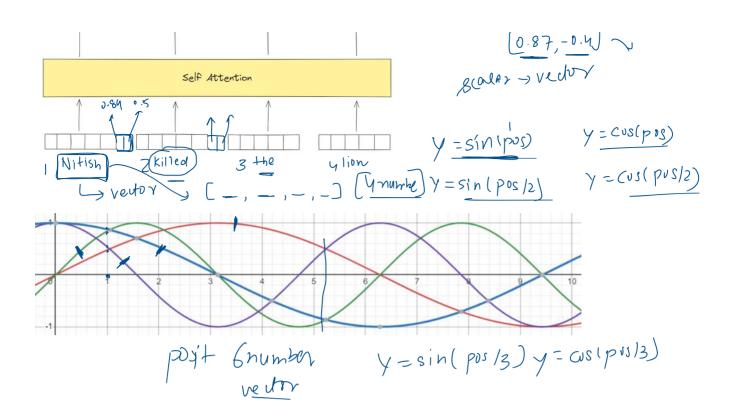
River bank jiver





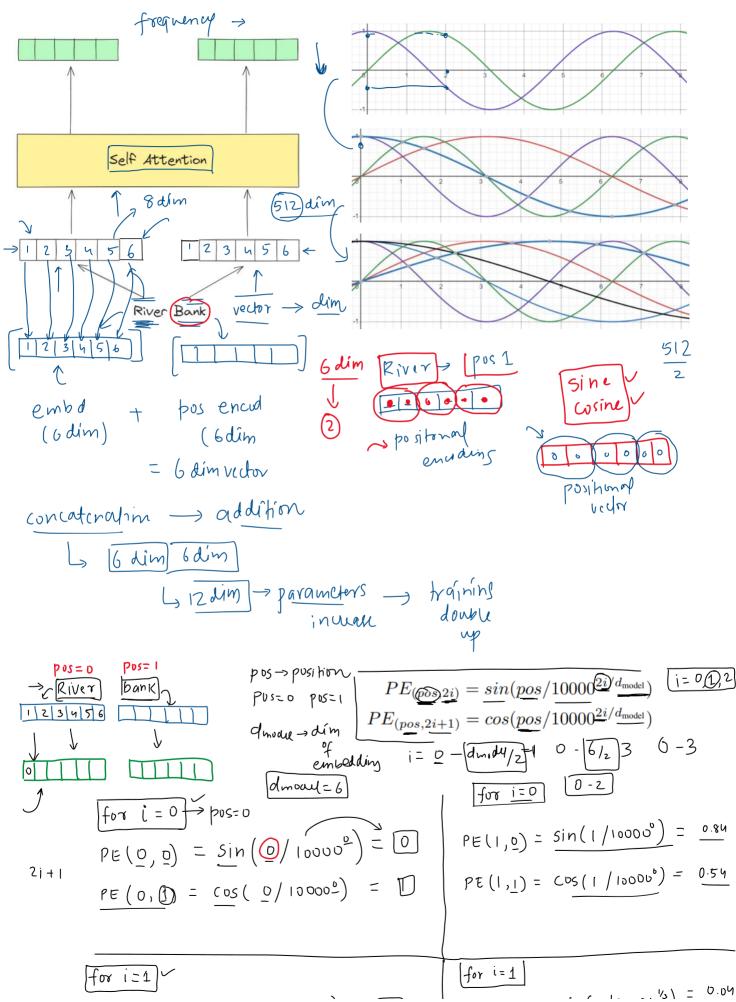






Positional Encoding





$for i=1$ $PE(0,2) = Sin(0/10000\frac{1/3}{3}) = 0$ $PE(0,3) = cos(0/10000\frac{1/3}{3}) = 1$	$ for i=1 $ $PE(1,2) = \frac{\sin(1/10000^{1/3})}{\sin(1/100000^{1/3})} = \frac{0.04}{0.99}$ $PE(1,3) = \frac{0.99}{0.99}$
for i=2 $PE(0, 4) = \frac{\sin(0/10000^{2/3})}{\cos(0/10000^{2/3})} = 0$ $PE(0, 5) = \cos(0/10000^{2/3}) = 1$	$ for i=2 $ $PE(1,4) = Sin(1/10000^{2/3}) = 0.00$ $PE(1,5) = Cos(1/10000^{2/3}) = 0.99$
River -	0 1

