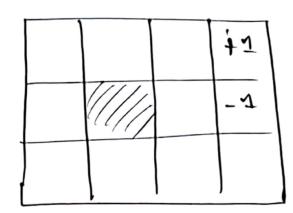
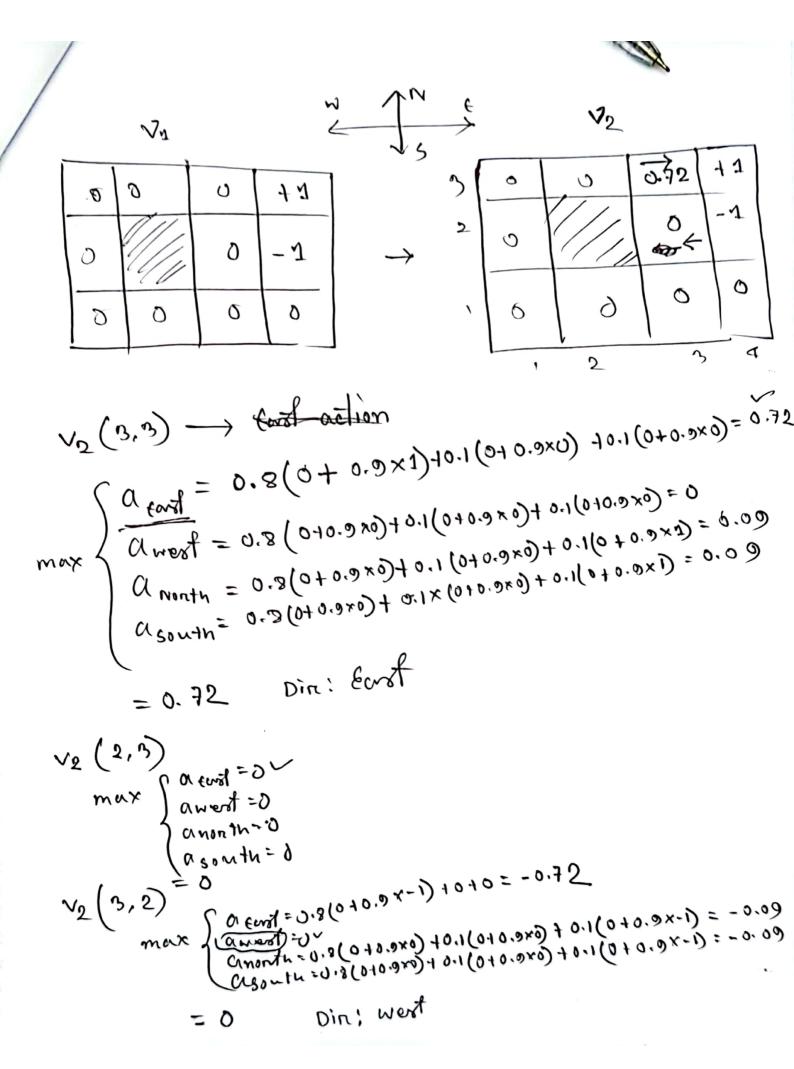
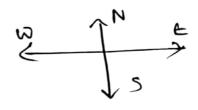
Tamvire-Ahmed | 8H-172-021. Fore Any Paroition On grud Noise = 0.2 y = 0.9 07 - Action Action We 37 state a_{south} aturd a Worth Changes state S.forst (I'll use this template to solve the states of grid'



 $A = [\{cvs\}, Wers], North, South]$ $A = [\{cvs\}, Wers], North, South]$ $Vit1 (S = \max_{\alpha \in A} \sum_{\alpha \in A} P(s'1s, \alpha)[\{c, \alpha, s'\}] + \delta$ $S' \in S$

0	0	٥	41
0		O	-1
0	0	6	0





<u>©</u>	0	0.72	+1
0	(///	0	-1
0	O	0	0

	っし	0	0.52	0.78	+1
\rightarrow	2	0		10.43	~1
	\	0	0	01	01
		<u> </u>	2	3	d

$$V_{n}(3,3)$$

$$= max \begin{cases} Anonth = 0.8 \times (010.9 \times 0.92) + 0 + 0.3 \times (010.9 \times 1) = 0.64 \\ a_{5} wh = 01010.1(010.9 \times 1) = 0.09 \\ a_{5} wh = 0.1(010.9 \times 0.72) + 010.9 \times (010.9 \times 1) = 0.78 \\ a_{6} wh = 0.1(010.9 \times 0.72) = 0.0648 \\ a_{7} wh = 01010.1(010.9 \times 0.72) = 0.0648 \end{cases}$$

≥ 0.78 Din: -(most

$$V_{3}(2,3)$$
 $V_{3}(2,3)$
 $V_{$

Dire: torst

$$V_{0}(5,2) = 0.82 \quad Dire : \{const$$

$$V_{0}(5,2) = 0.8(0+0.9\times0.92) + 0.1(0+0.9\times-1) + 0 = -0.65$$

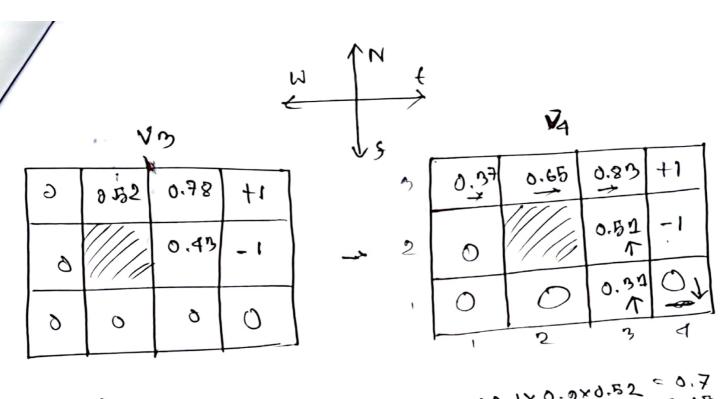
$$V_{0}(5,2) = 0.1(0+0.9\times0.9) + 0.2(0+0.9\times-1) + 0 = -0.65$$

$$V_{0}(5,2) = 0.1(0+0.92\times0.9) + 0.2(0+0.9\times-1) + 0 = -0.65$$

$$V_{0}(5,2) = 0.1(0+0.92\times0.9) = 0.0648$$

$$V_{0}(5,2) = 0.0648$$

Dire; North = 0.4 B



 $V_{4}(3,7)$ = 0.2×0.9×0.78+0.1×0.9×1+0.1×0.9×0.82=0.48

A nonth

a south=0.9×0.9×0.43+0.1×0.9×0.9×1+0.1×0.9×0.45=0.48

a curt = 0.4×0.9×0.78+0.9×0.9×1+0.1×0.9×0.45=0.48

A word=0.9×0.9×0.52+0.1×0.9×0.78+0.1×0.9×0.45

 $\max \begin{cases} a_{\text{Nonth}} = 0.2 \times 0.9 \times 0.62 + 0.1 \times 0.9 \times 0.78 + 0 = 0.44 \\ a_{\text{South}} = 0.2 \times 0.9 \times 0.62 + 0.1 \times 0.9 \times 0.62 \\ a_{\text{South}} = 0.65 \\ a_{\text{Eust}} = 0.65 \\ a_{\text{Eust}} = 0.65 \\ a_{\text{Eust}} = 0.1 \times 0.9 \times 0.62 + 0.1 \times 0.9 \times 0.62 \\ a_{\text{Eust}} = 0.1 \times 0.9 \times 0.62 + 0.1 \times 0.9 \times 0.62 \\ a_{\text{Eust}} = 0.65 \\ a_{\text{Eust}}$ 20.89 Dire tost

 $= \begin{cases} \alpha \text{ north} = 0.1 \times 0.9 \times 0.52 = 0.05 \\ \alpha \text{ couth} = 0.1 \times 0.9 \times 0.52 = 0.05 \\ \alpha \text{ couth} = 0.9 \times 0.9 \times 0.52 = 0.07 \\ \alpha \text{ end} = 0.9 \times 0.9 \times 0.52 = 0.07 \end{cases}$

```
\sqrt{4} \left( 3, 2 \right) = 

\frac{A \text{Nonth} = 0.98 \times 0.9 \times 0.840.1 \times 0.9 \times 0.43 \times 40.1 \times 0.9 \times -1 = 0.51}{a \text{ west} = -0.65}

\frac{a \text{Nonth} = -0.050}{a \text{ west} = -0.65}

\frac{a \text{Nonth}}{a \text{west} = -0.65}

\frac{a \text{Nonth}}{a \text{west}} = 0.65

\frac{a \text{Nonth}}{a \text{west}} = 0.04

\frac{a \text{Nonth}}{a \text{west}} = 0.04

\frac{a \text{Nonth}}{a \text{west}} = 0.04

        V_{4}(2,1) = \begin{cases} a_{nonth} = 0 \\ a_{south} = 0 \\ a_{most} = 0 \end{cases}
= 0 \qquad Din: None
V_{4}(4,1) = \begin{cases} a_{nonth} = 0.8 \times 0.9 \times -1 = -0.09 \\ a_{south} = 0.1 \times 0.9 \times -1 = -0.09 \\ a_{tot} = 0.1 \times 0.9 \times -1 = -0.09 \\ a_{tot} = 0.1 \times 0.9 \times -1 = -0.09 \end{cases}
a_{tot} = 0.1 \times 0.9 \times -1 = -0.09
                                                                                                                                                               Din= south
```