

```
Date
  Cost (3,8)= min { ((8,10) + cost (4,10) + ((8,11) + wel
                  cost (4,11)}
     = \min_{s \in S} \{ 5 + 2, 6 + 5 \}
      = Men 2 7, 113
       = I det (d=10)
  cost (2,2)= ming((2,6)+cost(3,6), ((2,7)+
           cost (3,7), ((2,8) + cost (3,8))
      = min {4+7, 2+5, 1+7}
      = mon & 11, 7, 8}
21 1/1 1/2 1/2 (d = 7) . 1 - (0 10 ) 1 1 2 = (1 , 1 )
  cost (2,3)= min { ((3,6)+ west (3,6), ((3,7)+
               (ost (3,7)}
  = m \ln \{2+7, 7+5\}

= m \ln \{9, 12\}
           = 9 (d=6)
  cost (2,4)=min {(4,8) + cost (3,8)}
          = 11+7
          = 18 (d=8) 1/4 po and scalt gold
  cost (2,5) = mon { ((5,7) + cost(3,7), ((5,8)+
                        cost (3,8)}
       = min { 11+5, 8+7}
       = min { 16, 15}
```

2

```
frank.
Stage 1
    cost (1,1)=min { ((1,2)+wst(2,2))
                      ((1,3) + cost (2,3),
                      c(1,4) + cost (2,4)
                      ((1,5)+ cost (2,5)
  = min 59+7, 7+9, 3+18 $ 2+15}
= min 5 16, 16, 21, 17;
= 16 (d= 2 or 3)

Fort finding shortest path, [Consider table]
stage; Nertex No.
   d(1,1)=2,d(2,2)=7,d(3,7)=10,d(4,10)=12
    1- Path=1-2-7-10+12
    d(1,1)=3, d(2,3)=6, d(3,6)=10, d(4,10)=12
            = 1-3-6-10-12
= 16 8 8 40 + (2.0) 1 min = (6.0) +
    : Path = 1-3-6-10-12
  Here, there are 2 optimal solutions.
    1-10,315 (F. P. Mar: + (F. 7) N Ewist = 1 - 1 1 4
   +ORMULA:-
 cost (i, j) = \min_{k \in \mathbb{N}} \{(i, k) + \text{cost } (i+1, k) \}
\{(i, k) \in \mathbb{E} \}
\{(i, k) \in \mathbb{E} \}
```