```
Bankors Algorithm
Hindude < Stdio. hs
Hindude < Std bool us
void wan cos
  int alloc [co][co] max [co][co], avail[co], work [co];
  int weed [w][w];
  Chas finish Iw] = 803 ;
  int n, m'
  Chas Sufe - Segreence [10] [3];
  int count io;
Point & (" Enter the up of Processes & desources: ");
  Scanf (" to d'ted", Lutur);
Print 6 (" Enter the allocation matrix: \");
 Gos (int == 0; ica; i++)
  for (int j =0 ; j zur ; j++)
         Scanb (" Jed", talloc [i] [i]);
Point 6 ("Enter the wax resource weather: In");
   bot (intizo; iku ; i++)
   600 (indg =0; jkm; j++)
    8 canb (" / d", 4 max [i][i]]
```

```
Print ("Ender the available resource vactors: "))
   for (int i=0 ; iLm ; i++) {
     Scanb ( of d' davail [13)
     worketi3 = avoil [i],
 for lindies; izh; itt)
 for (int i =0; j Lan ; j++)
   need [i][j] = wear [i][j] - alloc[j][j]
bool found false;
int index =0;
while (lount < u) }
found = flage;
for lint in jila, itt &
  ib (! timish [i]) }
   doel can - execute = true;
   for (intj =0', j < m; (++) {
     if Cheed [i][j] > wook[j]){
       Can-Execute = false;
       break ;
 16 (can - Execute) {
 Gos Cint j =0; j < m; j ++ )
```

work [3] + calla [i][j]

```
finish [i] =1 ;
spoint (Sife - Say [inda ++], "P7-d", i + 1);
 Count 4+ 1
 bound = four;
if (! found)
   Greak;
16 ( Count = = a) (
    Paint (" Syskem is in Sufe State. In Sufe segmente: ")
 600 (inti =0; izu; i+1) {
    Paint ( CET. S", Safe- Seg, [:3);
        it (izu-1)
           Phix & ("-7");
3 Print 6(" lu")
 3 clse 5
   Print ( L'System is not in a safe Stale Yu")
```

output Enter the wo of Processon 4 to Bources: 5 3 Enter the allocation water & 010 200 30 2 211 002 Enter the wax rosoute matrix 7 5 3 3 2 2 902 222 4 3 3

Enter the available 8086444 vector : 3 3 2 System is in a sufe state.

Suff Sequen : P2-7P4-7P5->P1-7P3

Pgi 1 of