() don't provide but

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=> Implement 0/1 knapsack problem using dynamic programming Modification so give the count of the items related.

PROGRAM:—

#unclude <stdio.h>
art max (int, art);
ent m, E, i, n, p[10], w[10], v[10][10], x[10], op-seln;
```

void object_selected();

int knapsack ();

()

paint ("Enter the number of objects (n"); Scant (" % d", kn);

printy ("Enter the weights of Mobjects (n");

\$0(i=1; i<=n;i++)
Scary ("%d", + w[i]);

painty (" Enter the prefit of Nobjects \n");

for (i=1; i < = n; i++)

scand ("%d", & P[i]);

print("Enter the capacity of knopsack \n");

scan ("%d", km);

op-soln= knapsoule (n,w,m,v,p);
paint ("The output is \n");

for (i=0; i(=n; i++)

(1 (j=0; j<=m;j++)

1 prints ("%d \t", V[1][1]);

1

Dunny

```
paints ("17");
print/ ("Optimal Solution = %od (n", op_solm);
 object_selected ();
 3
  ent max (inta, ent b)
    utun (a>b?a:b);
  int knapsack ()
    ent i, 1:
   for ( i=0; i (=n; +++)
    for (j=0; j(=m; j++)
     4 (i== 011 5==0)
        (0 = [i3[i]v
        du 4
         4 (W[i]>j)
         v[i][i] = v[i-i][i];
     che '
       v[i][i] = Alinimax(v[i-1][j], v[i-1][i-w[i]]+p[i]);
   retur V[n][m];
 void object_selected ()
  funt count = 0;
     izni
     j= m;
```

```
while (i!=0 dk i!=0)
   4 (v[i][1]!= v[i-D[i])
      x [i]=1;
      ici]w-[i];
      3, --;
   printy ( " object selected in");
     for (i=1; i<= n; i++)
        4 (x[i] ==1) 4
        paint ("%d \t", 6);
        count ++;
      puintd ("kn");
      print ("Total number of Etem selected: "od", count);
Output:
   Enter the number of objects
    4
   Enter the weight of Nobjects
   2432
   Enter the profite of Nobjety
   1210 20 15
   Enter exparity of knapsack
    5
```

Jamy

The output is LILLW- L. Optimal Solution Objects selected are pural to depole sound in 3 4 Total number of item selected ! 2 dilia (ijx) p (1, 1/6 %) | (buy Counties : part (Telas mans of Erens Schilles " Est , comes). spales by Appenia my are and a higher of one S & Ed 20 april and the state of the state of

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