```
Logs & others
Start here X adalabtest2.c X
          #include<stdio.h>
     1
          #include<conio.h>
     2
     3
          int max (int a, int b)
     4
     5
        ₽ (
             if(a>b)
     6
     7
               return a;
     8
             else return b;
     9
    10
          void knapsack(int w[],int v[], int s,int n)
    11
    12
            int k[n+1][s+1];
    13
            int i, j, res=0;
    14
    15
            int count=0, weight=0;
    16
    17
            for(i=0;i<=n;i++)
               for(j=0;j<=s;j++)
    18
    19
                    if(i=0 || j=0)
    20
    21
                      k[i][j]=0;
                    else if(w[i - 1] <= j)
    22
                      k[i][j] = \max(v[i-1]+k[i-1][j-w[i-1]], k[i-1][j]);
    23
                    else
    24
                      k[i][j] = k[i-1][j];
    25
    26
    27
            res=k[n][s];
    28
            printf("\n\nMaximum Value that can be obtained is : %d",res);
    29
    30
            printf("\nAnd the objects with there respective Weights selected are : ");
    31
            for(i=n;i>0 && res>0; i--)
    32
    33
    34
                 if (res = k[i - 1][j])
    35
                    continue;
    36
                 else
    37
                      printf("%d ", w[i-1]);
    38
                      res =res-v[i-1];
    39
                      j = j-w[i-1];
    40
                      count++;
    41
< □
```

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```
24
                 else
25
                   k[i][j] = k[i-1][j];
26
27
28
        res=k[n][s];
        printf("\n\nMaximum Value that can be obtained is : %d", res);
29
30
31
        printf("\nAnd the objects with there respective Weights selected are : ");
32
        for(i=n;i>0 && res>0; i--)
33
34
             if (res = k[i - 1][j])
35
                 continue;
36
              else
37
38
                   printf("%d ", w[i-1]);
39
                   res =res-v[i-1];
40
                   j = j-w[i-1];
41
                   count++;
42
                   weight=weight+w[i-1];
43
44
45
           printf("\nThe Count of the items selected is : %d", count);
46
           printf("\nThe Total Weight of the items selected : %d", weight);
47
48
49
      int main()
50
    ∃{
51
        int w[10], v[10], s, n, i;
52
        printf("\nEnter the Number of objects : ");
53
        scanf ("%d", &n);
54
        printf("\nEnter the Weights of the objects : ");
55
        for (i=0; i<n; i++)
56
           scanf("%d", &w[i]);
57
        printf("\nEnter the Values of the objects : ");
58
        for (i=0; i<n; i++)
59
           scanf("%d", &v[i]);
        printf("\nEnter the Size of the KnapSack : ");
60
        scanf ("%d", &s);
61
62
        knapsack (w, v, s, n);
63
64
```

Enter the Number of objects: 4

Enter the Weights of the objects: 7 10 2 4

Enter the Values of the objects: 25 20 10 15

Enter the Size of the KnapSack: 15

Maximum Value that can be obtained is: 50

And the objects with there respective Weights selected are: 4 2 7

The Count of the items selected is: 3

The Total Weight of the items selected: 13

Process returned 0 (0x0) execution time: 32.909 s

Press any key to continue.

"C:\web developement(html.css.js)\adalabtest2.exe"