```
12
                     K[i][w] = 0;
13
                 else if (wt[i-1] <= w)
14
                       K[i][w] = max(val[i-1] + K[i-1][w-wt[i-1]], K[i-1]
15
                 else
16
                       K[i][w] = K[i-1][w];
17
 18
 19
        return K[n][W];
 20
 21
     int main()
 22 - {
 23
          int i, n, val[20], wt[20], W;
 24
  25
          printf("Enter number of items:");
          scanf("%d", &n);
           for(i = 0; i < n; ++i){
           scanf("%d%d", &val[i], &wt[i]);
```

```
K[i][w] = max(val[i-1] + K[i-1][w-wt[i-1]
 Enter number of items:3
 Enter value and weight of items:
1 2
2 3
5 4
Enter size of knapsack:6
 ...Program finished with exit code 0
Press ENTER to exit console.
```