```
#include<stdio.h>
int max(int a, int b) { return (a > b) ? a : b; }
int knapSack(int W, int wt[], int val[], int n) {
  int i, w;
  int K[n+1][W+1];
  for (i = 0; i \le n; i++)
     for (w = 0; w \le W; w++) {
       if (i==0 || w===0)
          K[i][w] = 0;
       else if (wt[i-1] \le w)
          K[i][w] = max(val[i-1] + K[i-1][w-wt[i-1]], K[i-1][w]);
          K[i][w] = K[i-1][w];
  }
  return K[n][W];
}
int main() {
  int val[100], wt[100], W, n, i;
  printf("Enter the number of items: ");
  scanf("%d", &n);
  printf("Enter the values and weights of each item:\n");
  for(i = 0; i < n; i++) {
     scanf("%d%d", &val[i], &wt[i]);
  printf("Enter the capacity of knapsack: ");
  scanf("%d", &W);
  printf("The maximum value that can be put in a knapsack of capacity %d is: %d\n", W,
knapSack(W, wt, val, n));
  return 0;
Output:
                 C:\WINDOWS\system32\cmd. ×
             Enter the number of items: 3
             Enter the values and weights of each item:
              60 10
             100 20
             120 30
             Enter the capacity of knapsack: 50
             The maximum value that can be put in a knapsack of capacity 50 is: 220
             Press any key to continue . . .
```