```
#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] <= w)
          K[i][w] = max(val[i-1] + K[i-1][w-wt[i-1]], K[i-1][w]);
      else
          K[i][w] = K[i-1][w];
    }
  }
 return K[n][W];
}
int main()
{
  int i, n, val[20], wt[20], W;
  printf("Enter number of items:");
  scanf("%d", &n);
  printf("Enter value and weight of items:\n");
  for(i = 0; i < n; ++i){
```

```
scanf("%d%d", &val[i], &wt[i]);
}

printf("Enter size of knapsack:");
scanf("%d", &W);

printf("%d", knapSack(W, wt, val, n));
return 0;
}
```