Program Code:

```
#include <stdio.h>
 1
 2
     int max(int a, int b) { return (a > b) ? a : b; }
 3
     int knapSack(int W, int wt[], int val[], int n)
 4
 5
         // Base Case
         if (n == 0 || W == 0)
 6
 7
            return 0;
 8
         if (wt[n - 1] > W)
            return knapSack(W, wt, val, n - 1);
 9
10
         else
11
             return max(
12
                 val[n - 1]
13
                   + knapSack(W - wt[n - 1],
14
                             wt, val, n - 1),
15
                 knapSack(W, wt, val, n - 1));
16
17
     int main()
18
19
         int val[] = { 60, 100, 120 };
         int wt[] = { 10, 20, 30 };
20
21
         int W = 50;
22
         int n = sizeof(val) / sizeof(val[0]);
         printf("%d", knapSack(W, wt, val, n));\\
23
24
         return 0;
25
```

Output: