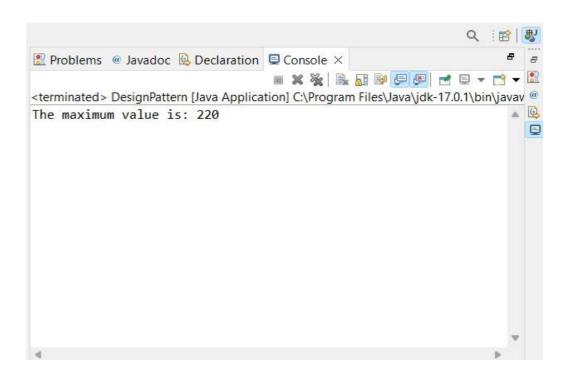
PRACTICAL 8

```
AIM:-WAP and Algorithm of knapsack
//ALGORITHM
Fractional Knapsack (Array v, Array w, int W)
1. for i= 1 to size (v)
2. do p[i] = v[i] / w[i]
3. Sort-Descending (p)
4. i ← 1
5. while (W>0)
6. do amount = min (W, w [i])
7. solution [i] = amount
8. W= W-amount
9. i ← i+1
10. return solution
//PROGRAM
     #include <bits/stdc++.h>
     using namespace std;
     int max(int a, int b) { return (a > b) ? a : b; }
     int knapSack(int W, int wt[], int val[], int n)
        if (n == 0 || W == 0)
           return 0;
        if (wt[n-1] > W)
           return knapSack(W, wt, val, n - 1);
        else
           return max(
```

//OUTPUT



//COMPLEXITY

Time Complexity: O(N*W).