```
1
    class ItemValue:
        """Item Value DataClass"""
 2
 3
 4
        def __init__(self, wt_, val_, ind_):
            self.wt = wt_
 5
            self.val = val
 6
 7
            self.ind = ind_
            self.cost = val_ // wt_
 8
 9
        def __lt__(self, other):
10
            return self.cost < other.cost</pre>
11
12
13
    def fractionalKnapSack(wt, val, capacity):
14
        """Function to get maximum value"""
15
        iVal = [ItemValue(wt[i], val[i], i) for i in range(len(wt))]
16
17
        # sorting items by value
18
        iVal.sort(reverse=True)
19
20
        totalValue = 0
21
        for i in iVal:
22
23
            curWt = i.wt
24
            curVal = i.val
            if capacity - curWt \geq 0:
25
26
                 capacity -= curWt
                 totalValue += curVal
27
            else:
28
29
                 fraction = capacity / curWt
                 totalValue += curVal * fraction
30
                 capacity = int(capacity - (curWt * fraction))
31
32
                 break
        return totalValue
33
34
35
    if __name__ = "__main__":
36
        wt = [10, 40, 20, 30]
37
        val = [60, 40, 100, 120]
38
        capacity = 50
39
40
        # Function call
41
        maxValue = fractionalKnapSack(wt, val, capacity)
42
43
        print("Maximum value in Knapsack =", maxValue)
44
    11 11 11
45
   OUTPUT:
46
47
48
   Maximum value in Knapsack = 240.0
49
50
```