```c
# include<stdio.h>
# include<conio.h>
#define N 5
void print(int w[],int v[])
{
    int i;

    printf("Item  =\t\t");
    for(i=0;i<N;i++)
        printf(" %d  \t",i+1);
    printf("\n\t\t_____");

    printf("\n\nWeight =\t ");
    for(i=0;i<N;i++)
        printf("%d \t",w[i]);

    printf("\n\nProfit =\t");
    for(i=0;i<N;i++)
        printf("%d \t",v[i]);
     printf("\n\t\t_____");

    printf("\n\nV / W =\t\t");
    for(i=0;i<N;i++)
        printf("%d \t",v[i]/w[i]);
    printf("\n\n");
}
void knapsack(int weight[],int v[],int capacity,int index[])
{

 float u=0.0,x;
 int i=0,ind;
    printf("In knapsack..:");
 while(capacity!=0 && i<N)
 {
    ind=index[i];
    if(weight[ind]<=capacity)
    {
        printf("item%d, ",ind);
        capacity-=weight[ind];
        u+=v[ind];
    }
    else
    {
        printf("item%d, ",ind);
        x=capacity*1.0/weight[ind];
        u+=x*v[ind];
        capacity=0;
    }
    i++;

 }
    printf("\n\nMaximum profit is...: %.2f",u);
}
int main()
{
 int w[N]={2,2,1,1,6};
 int v[N]={100,100,30,200,240};
 int capacity=10,i,j;
 int item[N],temp,index[N];

 print(w,v);

 for (i=0; i<N; i++)
 {
    item[i]=v[i]/w[i];
    index[i]=i;

 }
```

```c
for(i=0;i<N;i++)
{
    for(j=i+1;j<N;j++)
    {
      if(item[i]<item[j])
      {

          temp=item[j];
          item[j]=item[i];
          item[i]=temp;

          temp=index[i];
          index[i]=index[j];
          index[j]=temp;
      }

    }
}
printf("\n\n\n");
printf("Sort according to decreasing order...:\n\n\n");
print(w,v);
knapsack(w,v,capacity,index);

printf("\n\n");
for(i=0;i<N;i++)
    printf("item(%d) ,",index[i]);


 return 0;
}
```