

```
printf("\n Enter the knapsack's capacity:\t ");
  scanf("%d", &m1);
  Gknapsack();
}
void Gknapsack() {
 int sum = 0;
  for (i = 0; i < n; i++) {
    ratio[i] = (float)p[i] / w[i];
   sol[i] = 0; // Initialize solution array to 0
  }
  for (q = 0; q < n; q++) {
   float max = 0.0;
   int k = −1;
   for (i = 0; i < n; i++) {
     if((ratio[i] > max) && (sol[i] == 0)) {
        max = ratio[i];
        k = i;
     }
   }
   if (k == -1) break; // If no item found, break the loop
```

```
if(m1>=w[k])\{
     sol[k] = 1;
     m1 -= w[k];
     sum += p[k];
   } else {
     sol[k] = -1;
   }
 }
 for (i = 0; i < n; i++) {
   if (sol[i] == -1) {
     sol[i] = 0;
   }
 }
  printf("\n Solution with Greedy Technique: %d", sum);
  printf("\nThe solution vector is :\n");
  printf("[");
 for (i = 0; i < n; i++) {
    printf("%d\t", sol[i]);
 }
  printf("]");
}
```