```
int N = 5;
int M = 4;
range Products = 1..N;
range Machines = 1..M;
int profit[Products] = [40, 70, 20, 80, 140];
int resources_usage[Products] = [2, 3, 2, 4, 6];
int total_resources = 20;
int machine_rental_cost[Machines] = [50, 60, 15, 45];
int machines_products_matrix[Machines][Products] = [[0,1,1,1,0],[1,1,0,1,1],[0,0,1,0,0],[1,0,0,0,1]];
dvar int+ x[Products];
dvar boolean y[Machines];
maximize
sum(i in Products,j in Machines) (profit[i] * x[i] - machine_rental_cost[j] * y[j]);
subject to {
  forall(i in Products) ((x[i] != 0) <= sum(j in Machines)(machines_products_matrix[j][i]*y[j]));
  sum(i in Products) resources_usage[i] * x[i] <= total_resources;</pre>
  sum(j in Machines) y[j] >= 1;
  sum(i in Products) x[i] >= 1;
}
execute DISPLAY {
  writeln("Optymalne rozwiązanie:");
  write("Wynajmujemy maszyny nr ");
  for (j in Machines){
   if (y[j] == 1) write(j, "");
  }
  writeln("by produkować");
  for (i in Products) {
     writeln(x[i], "jednostek produktu ", i);
  }
}
```