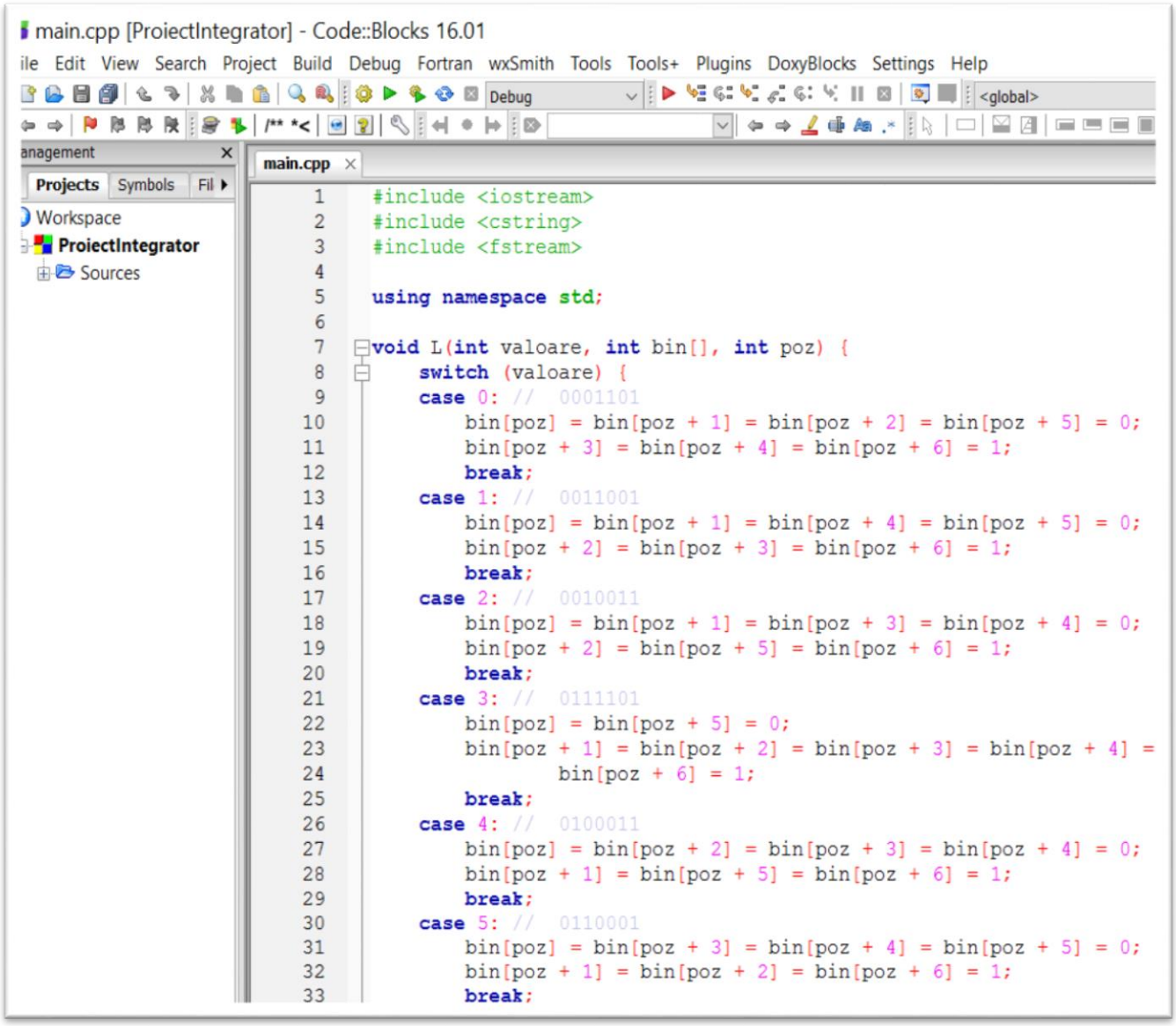
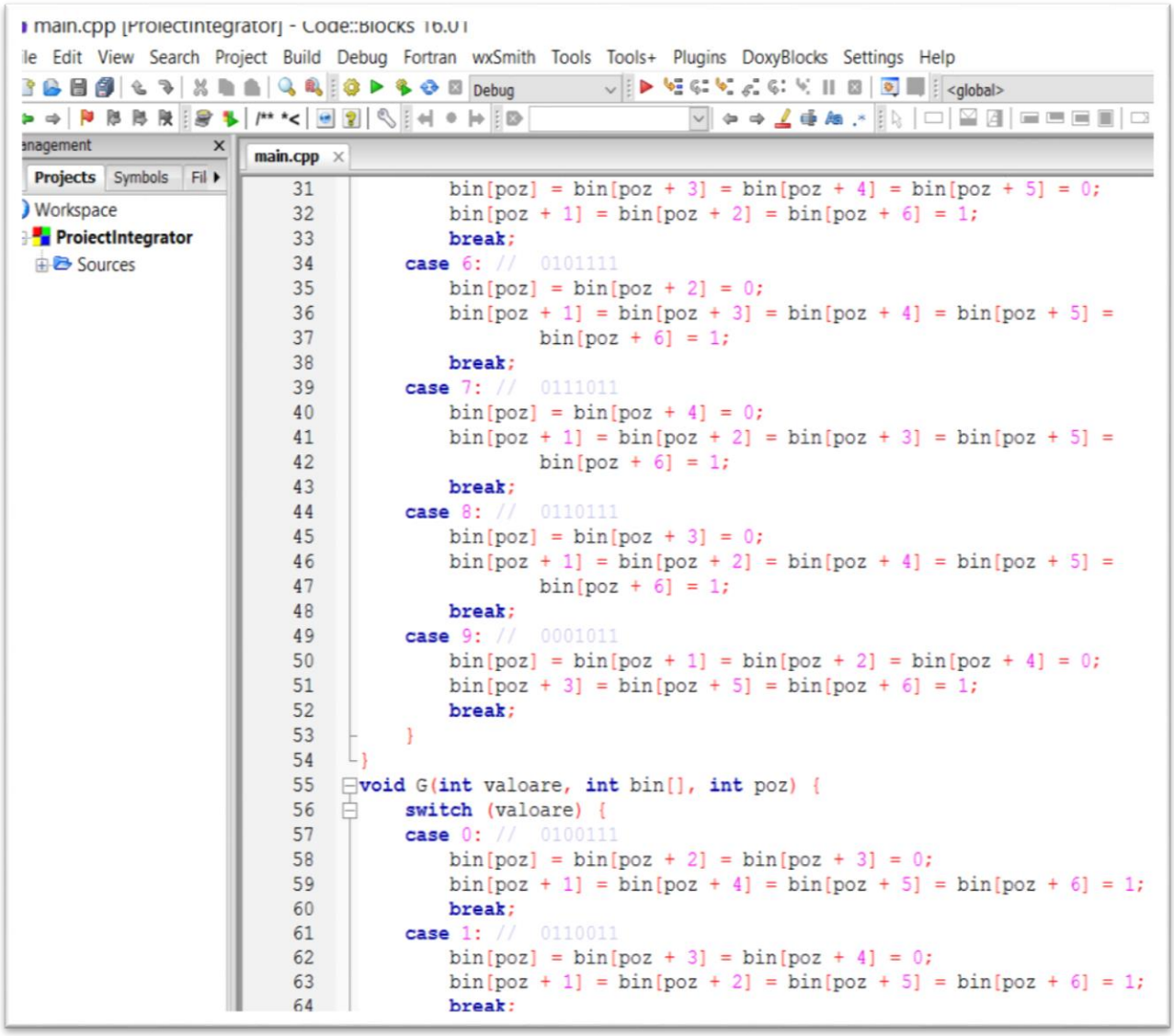
Realizat de Toma Ana-Loredana

Proiect integrator 1 (anul 1 - semestrul 1)

In acest prim proiect am realizat o aplicatie ce genereaza coduri de bare in format EAN 13.

Aceasta aplicatie s-a realizat in limbajul C++ , mai jos am atasat capturi de ecran ce demostreaza functionalitatea programului.




main.cpp [ProiectIntegrator] - Code::Blocks 16.01
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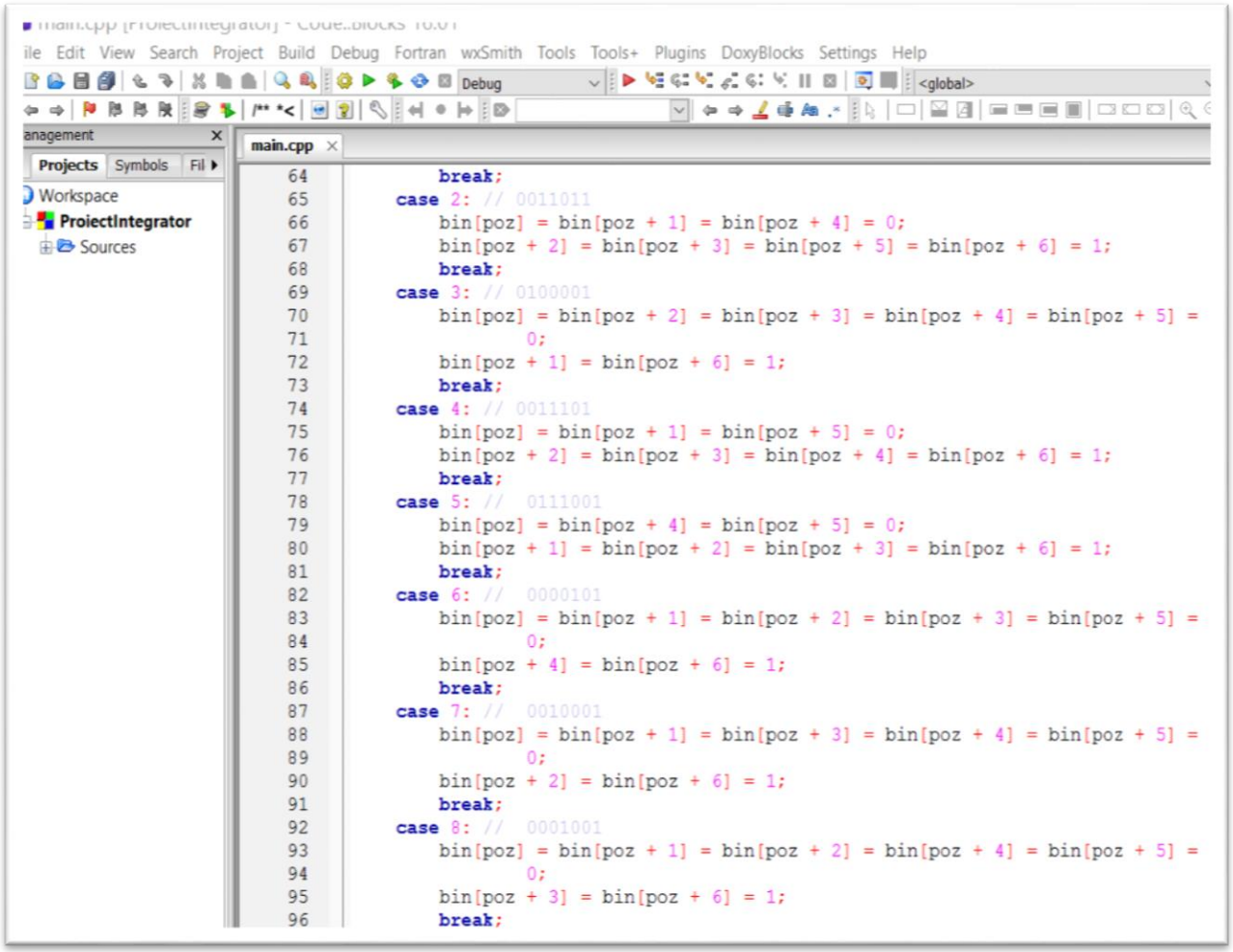
main.cpp
bin[poz] = bin[poz + 3] = bin[poz + 4] = bin[poz + 5] = 0;
bin[poz + 1] = bin[poz + 2] = bin[poz + 6] = 1;
break;
case 6: // 0101111
bin[poz] = bin[poz + 2] = 0;
bin[poz + 1] = bin[poz + 3] = bin[poz + 4] = bin[poz + 5] =
bin[poz + 6] = 1;
break;
case 7: // 0111011
bin[poz] = bin[poz + 4] = 0;
bin[poz + 1] = bin[poz + 2] = bin[poz + 3] = bin[poz + 5] =
bin[poz + 6] = 1;
break;
case 8: // 0110111
bin[poz] = bin[poz + 3] = 0;
bin[poz + 1] = bin[poz + 2] = bin[poz + 4] = bin[poz + 5] =
bin[poz + 6] = 1;
break;
case 9: // 0001011
bin[poz] = bin[poz + 1] = bin[poz + 2] = bin[poz + 4] = 0;
bin[poz + 3] = bin[poz + 5] = bin[poz + 6] = 1;
break;
}
}
void G(int valoare, int bin[], int poz) {
switch (valoare) {
case 0: // 0100111
bin[poz] = bin[poz + 2] = bin[poz + 3] = 0;
bin[poz + 1] = bin[poz + 4] = bin[poz + 5] = bin[poz + 6] = 1;
break;
case 1: // 0110011
bin[poz] = bin[poz + 3] = bin[poz + 4] = 0;
bin[poz + 1] = bin[poz + 2] = bin[poz + 5] = bin[poz + 6] = 1;
break;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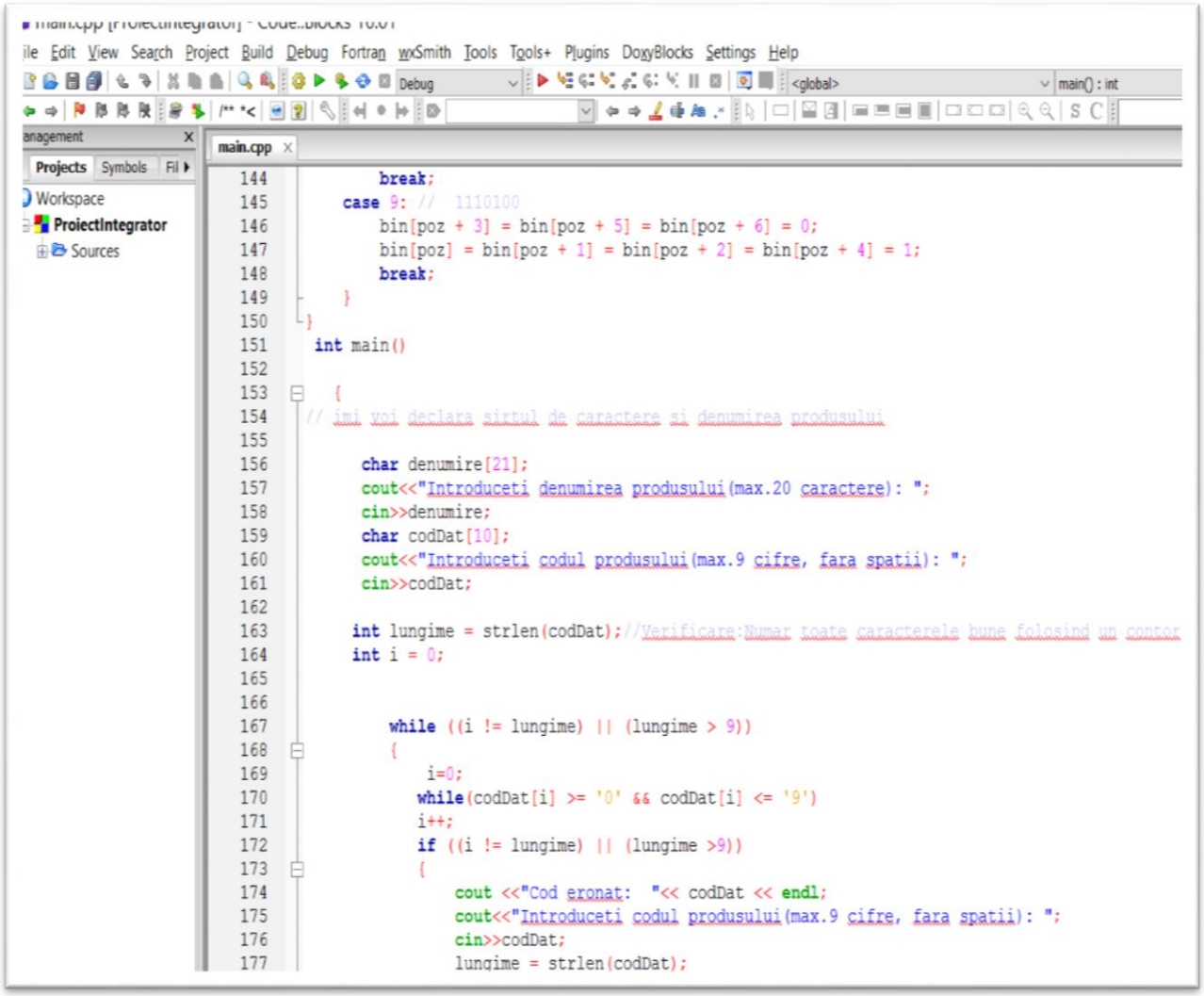
main.cpp
64 break;
65 case 2: // 0011011
66 bin[poz] = bin[poz + 1] = bin[poz + 4] = 0;
67 bin[poz + 2] = bin[poz + 3] = bin[poz + 5] = bin[poz + 6] = 1;
68 break;
69 case 3: // 0100001
70 bin[poz] = bin[poz + 2] = bin[poz + 3] = bin[poz + 4] = bin[poz + 5] =
71 0;
72 bin[poz + 1] = bin[poz + 6] = 1;
73 break;
74 case 4: // 0011101
75 bin[poz] = bin[poz + 1] = bin[poz + 5] = 0;
76 bin[poz + 2] = bin[poz + 3] = bin[poz + 4] = bin[poz + 6] = 1;
77 break;
78 case 5: // 0111001
79 bin[poz] = bin[poz + 4] = bin[poz + 5] = 0;
80 bin[poz + 1] = bin[poz + 2] = bin[poz + 3] = bin[poz + 6] = 1;
81 break;
82 case 6: // 0000101
83 bin[poz] = bin[poz + 1] = bin[poz + 2] = bin[poz + 3] = bin[poz + 5] =
84 0;
85 bin[poz + 4] = bin[poz + 6] = 1;
86 break;
87 case 7: // 0010001
88 bin[poz] = bin[poz + 1] = bin[poz + 3] = bin[poz + 4] = bin[poz + 5] =
89 0;
90 bin[poz + 2] = bin[poz + 6] = 1;
91 break;
92 case 8: // 0001001
93 bin[poz] = bin[poz + 1] = bin[poz + 2] = bin[poz + 4] = bin[poz + 5] =
94 0;
95 bin[poz + 3] = bin[poz + 6] = 1;
96 break;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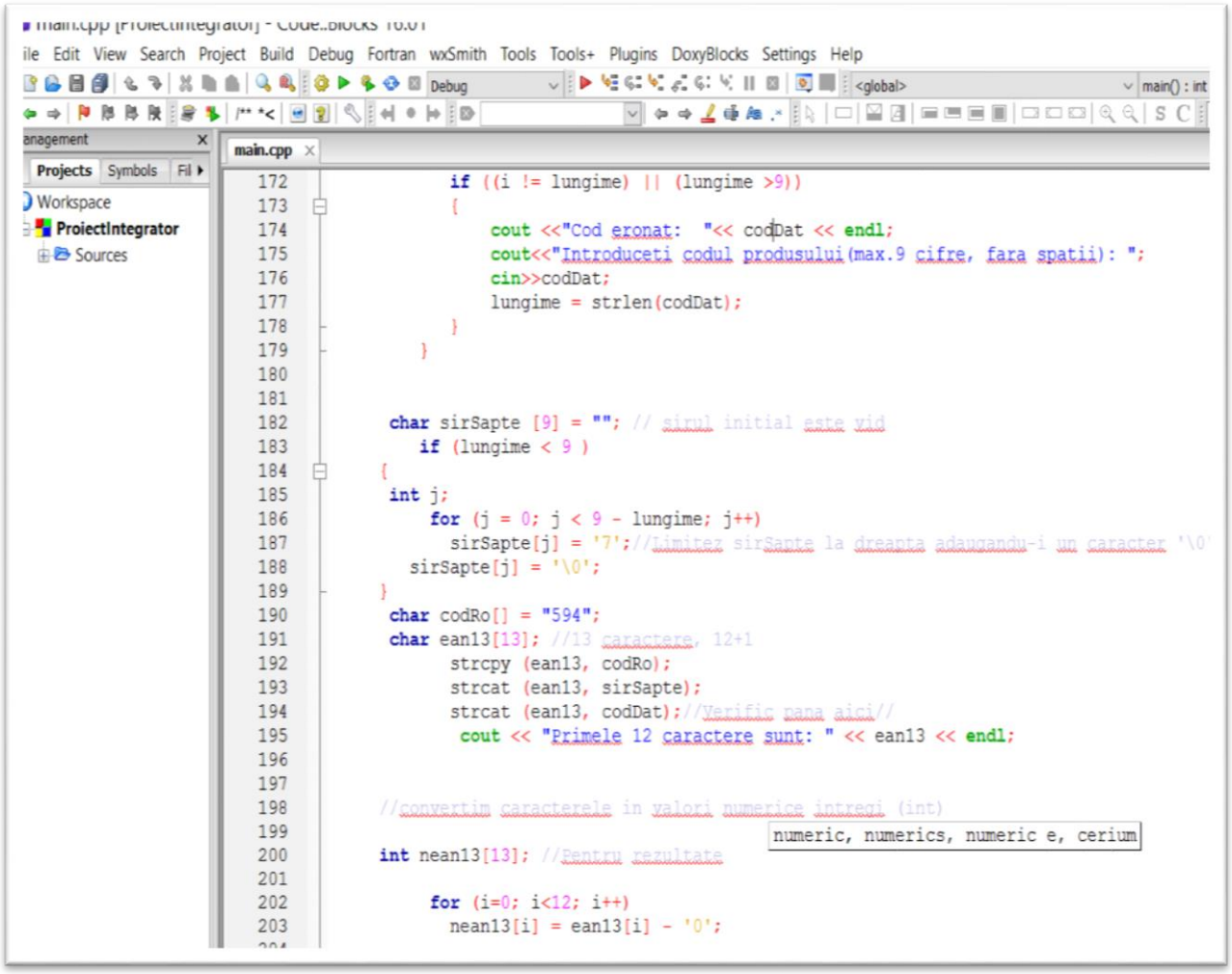
main.cpp
144 break;
145 case 9: // 1110100
146 bin[poz + 3] = bin[poz + 5] = bin[poz + 6] = 0;
147 bin[poz] = bin[poz + 1] = bin[poz + 2] = bin[poz + 4] = 1;
148 break;
149 }
150 }
151 int main()
152
153 {
154 // imi voi declara sirtul de caractere si denumirea produsului
155
156 char denumire[21];
157 cout<<"Introduceti denumirea produsului(max.20 caractere): ";
158 cin>>denumire;
159 char codDat[10];
160 cout<<"Introduceti codul produsului(max.9 cifre, fara spatii): ";
161 cin>>codDat;
162
163 int lungime = strlen(codDat);//Verificare:Numar toate caracterele bune folosind un contor
164 int i = 0;
165
166
167 while ((i != lungime) || (lungime > 9))
168 {
169 i=0;
170 while(codDat[i] >= '0' && codDat[i] <= '9')
171 i++;
172 if ((i != lungime) || (lungime >9))
173 {
174 cout <<"Cod eronat: "<< codDat << endl;
175 cout<<"Introduceti codul produsului(max.9 cifre, fara spatii): ";
176 cin>>codDat;
177 lungime = strlen(codDat);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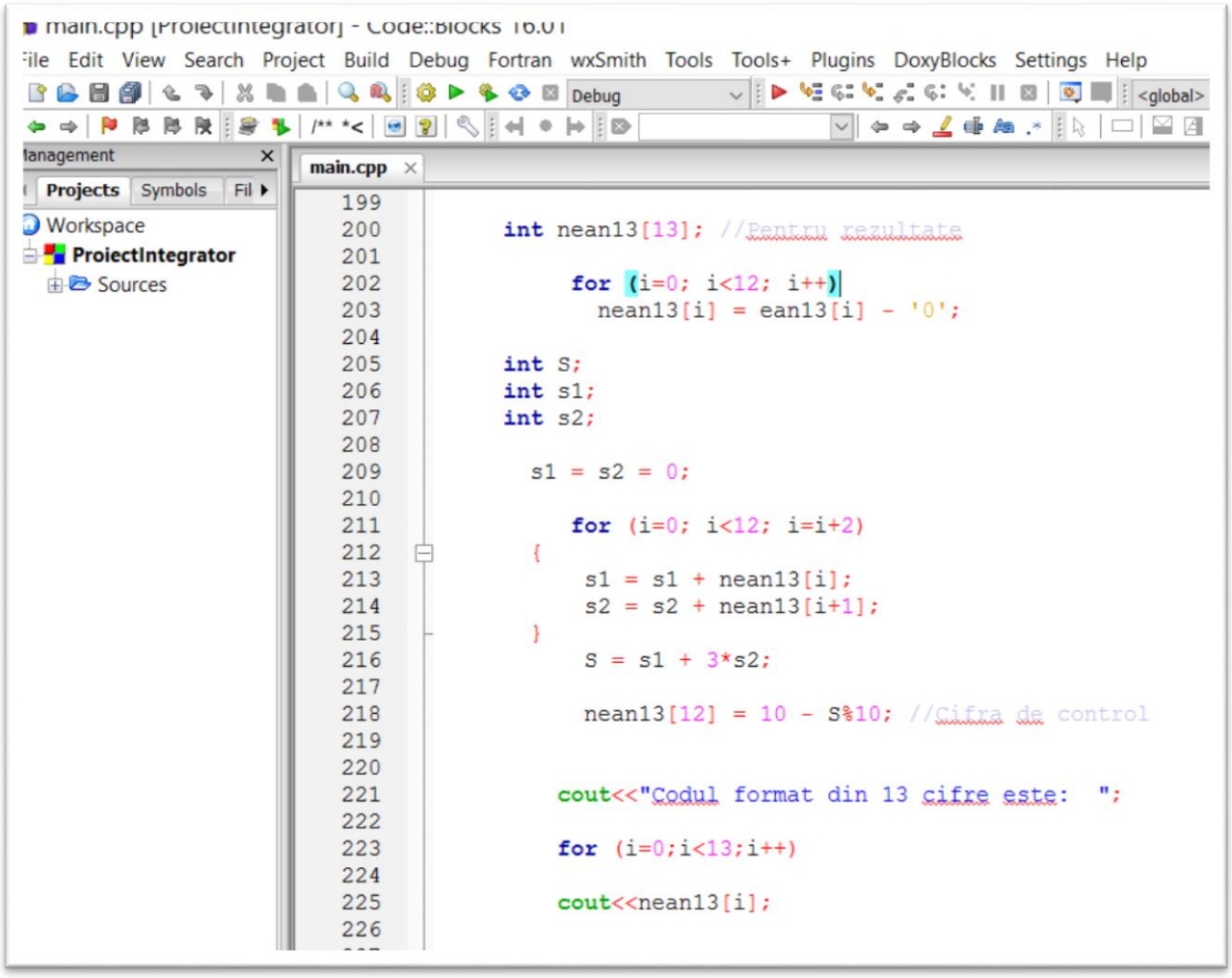
main.cpp
172 if ((i != lungime) || (lungime >9))
173 {
174 cout <<"Cod eronat: "<< codDat << endl;
175 cout<<"Introduceti codul produsului(max.9 cifre, fara spatii): ";
176 cin>>codDat;
177 lungime = strlen(codDat);
178 }
179 }
180
181
182 char sirSapte [9] = ""; // sirul initial este vid
183 if (lungime < 9)
184 {
185 int j;
186 for (j = 0; j < 9 - lungime; j++)
187 sirSapte[j] = '7';//Limitez sirSapte la dreapta adaugandu-i un caracter '\0'
188 sirSapte[j] = '\0';
189 }
190 char codRo[] = "594";
191 char ean13[13]; //13 caractere, 12+1
192 strcpy (ean13, codRo);
193 strcat (ean13, sirSapte);
194 strcat (ean13, codDat);//Verific pana aici//
195 cout << "Primele 12 caractere sunt: " << ean13 << endl;
196
197
198 //convertim caracterele in valori numerice intregi (int)
199 numeric, numerics, numeric e, cerium
200 int nean13[13]; //Pentru rezultate
201
202 for (i=0; i<12; i++)
203 nean13[i] = ean13[i] - '0';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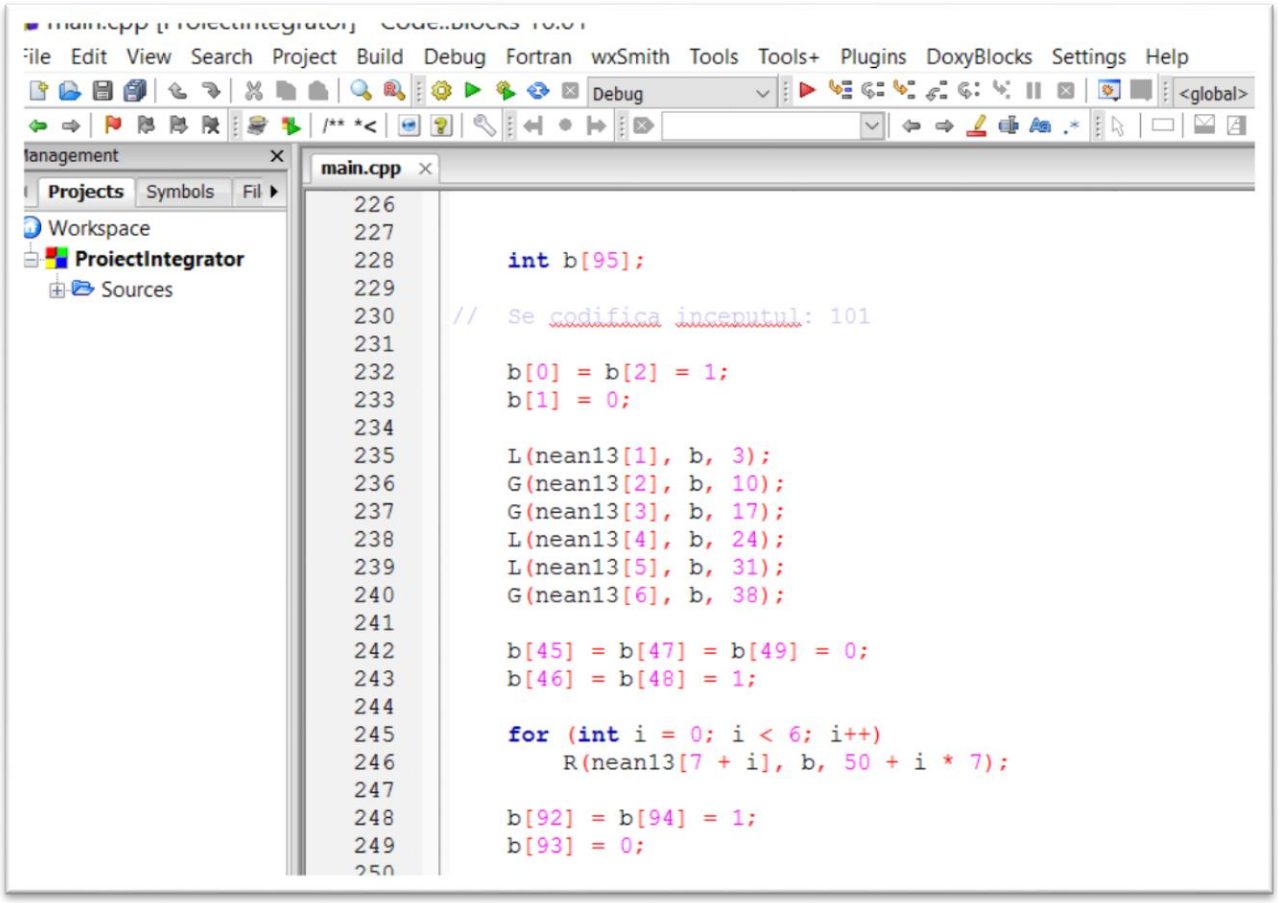
main.cpp
199
200 int nean13[13]; //Pentru rezultate
201
202 for (i=0; i<12; i++)
203 nean13[i] = ean13[i] - '0';
204
205 int S;
206 int s1;
207 int s2;
208
209 s1 = s2 = 0;
210
211 for (i=0; i<12; i=i+2)
212 {
213 s1 = s1 + nean13[i];
214 s2 = s2 + nean13[i+1];
215 }
216 S = s1 + 3*s2;
217
218 nean13[12] = 10 - S%10; //Cifra de control
219
220
221 cout<<"Codul format din 13 cifre este: ";
222
223 for (i=0;i<13;i++)
224
225 cout<<nean13[i];
226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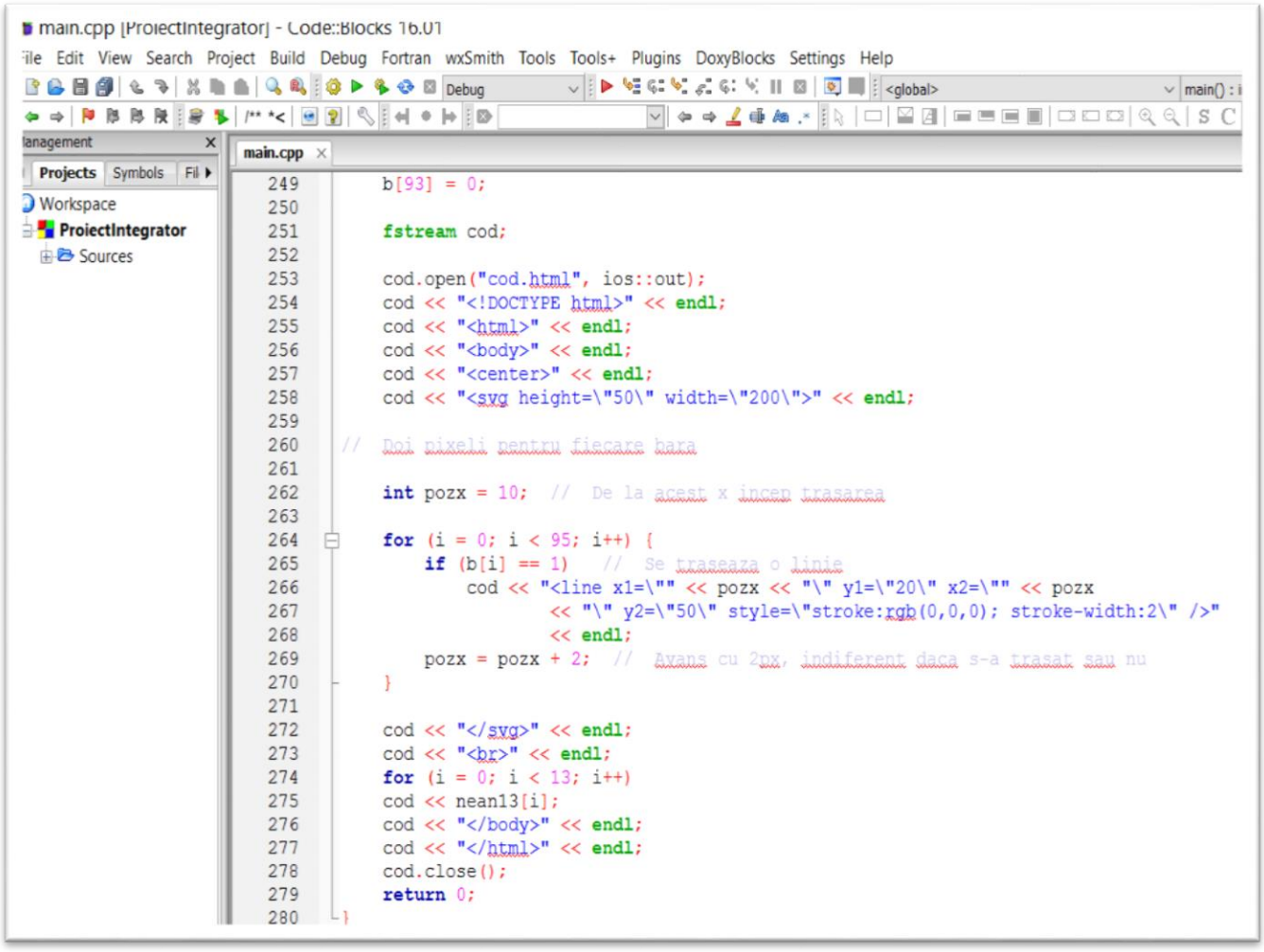
226
227
228 int b[95];
229
230 // Se codifica inceputul: 101
231
232 b[0] = b[2] = 1;
233 b[1] = 0;
234
235 L(nean13[1], b, 3);
236 G(nean13[2], b, 10);
237 G(nean13[3], b, 17);
238 L(nean13[4], b, 24);
239 L(nean13[5], b, 31);
240 G(nean13[6], b, 38);
241
242 b[45] = b[47] = b[49] = 0;
243 b[46] = b[48] = 1;
244
245 for (int i = 0; i < 6; i++)
246 R(nean13[7 + i], b, 50 + i * 7);
247
248 b[92] = b[94] = 1;
249 b[93] = 0;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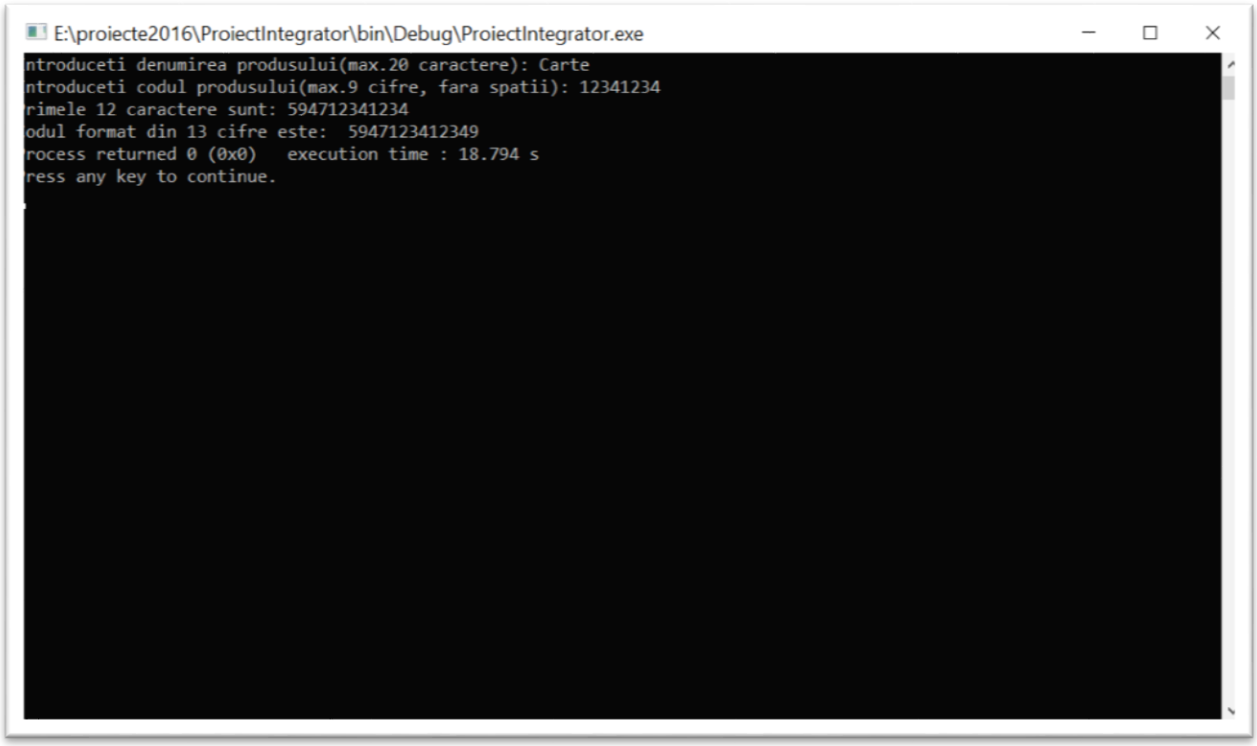
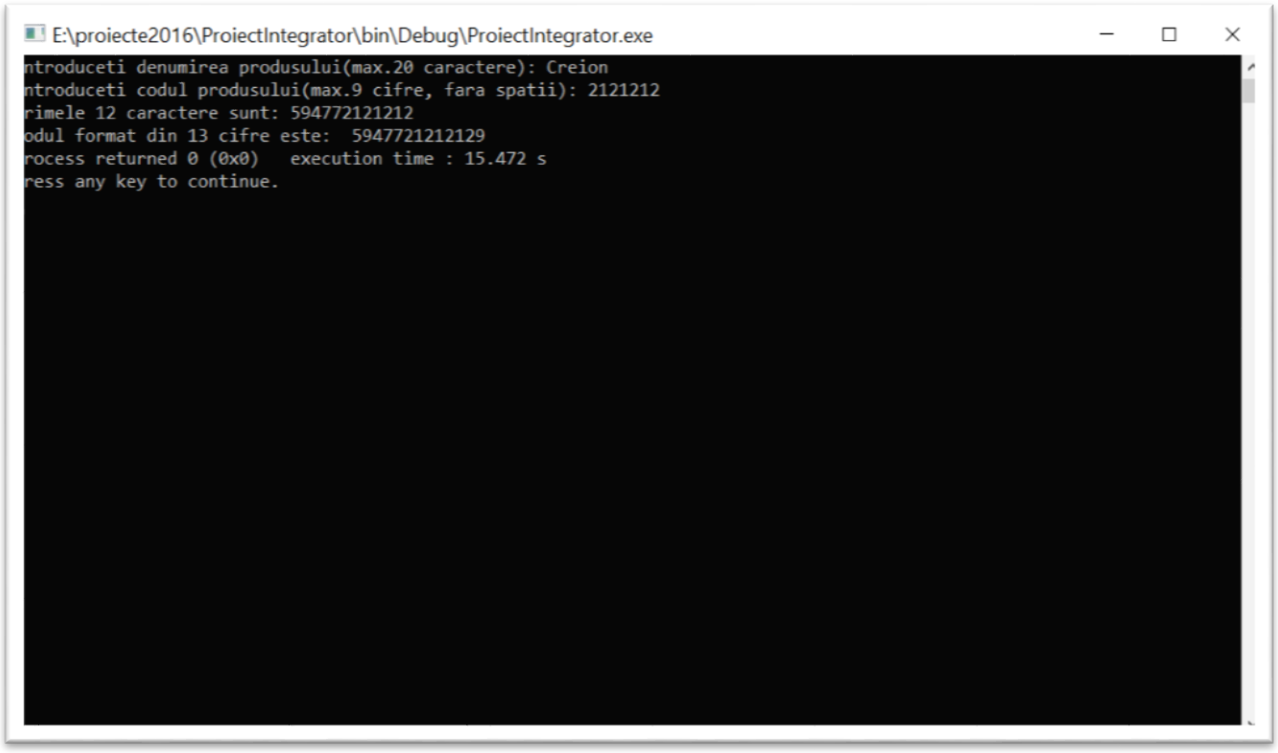
b[93] = 0;
fstream cod;
cod.open("cod.html", ios::out);
cod << "<!DOCTYPE html>" << endl;
cod << "<html>" << endl;
cod << "<body>" << endl;
cod << " " << endl;
cod << "<svg height=\"50\" width=\"200\">" << endl;
// Doi pixeli pentru fiecare bara
int pozx = 10; // De la acest x incep trasarea
for (i = 0; i < 95; i++) {
if (b[i] == 1) // Se traseaza o linie
cod << "<line x1=\"" << pozx << "\" y1=\"20\" x2=\"" << pozx
<< "\" y2=\"50\" style=\"stroke:rgb(0,0,0); stroke-width:2\" />"
<< endl;
pozx = pozx + 2; // Avans cu 2px, indiferent daca s-a trasat sau nu
}
cod << "</svg>" << endl;
cod << "
" << endl;
for (i = 0; i < 13; i++)
cod << nean13[i];
cod << "</body>" << endl;
cod << "</html>" << endl;
cod.close();
return 0;
}


E:\proiecte2016\ProiectIntegrator\bin\Debug\ProiectIntegrator.exe
ntroduceti denumirea produsului(max.20 caractere): Carte
ntroduceti codul produsului(max.9 cifre, fara spatii): 12341234
rimele 12 caractere sunt: 594712341234
odul format din 13 cifre este: 5947123412349
rocess returned 0 (0x0)   execution time : 18.794 s
ress any key to continue.


file:///E:/proiecte2016/ProiectIntegrator/cod.html
5947123412349


5947123412349


E:\proiecte2016\ProiectIntegrator\bin\Debug\ProiectIntegrator.exe
ntroduceti denumirea produsului(max.20 caractere): Creion
ntroduceti codul produsului(max.9 cifre, fara spatii): 2121212
rimele 12 caractere sunt: 594772121212
odul format din 13 cifre este: 5947721212129
rocess returned 0 (0x0) execution time : 15.472 s
ress any key to continue.


file:///E:/proiecte2016/ProiectIntegrator/cod.html
160%
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5947721212129


5947721212129