```
1 C:\java11\jdk-11.0.2\bin\java.exe "-javaagent:C:\
  Program Files\JetBrains\IntelliJ IDEA Community
  Edition 2021.3.2\lib\idea_rt.jar=57052:C:\Program
  Files\JetBrains\IntelliJ IDEA Community Edition 2021.
  3.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\
  alexx\IdeaProjects\JavaHomework\out\production\
  JavaHomework com.netcracker.homework1.Main
2 *****
3 ***testCircle***
4 ******
5 Circle{radius=1.0, color='red'}
6 Area of circle=3.141592653589793
7 Circle{radius=32.0, color='red'}
8 Area of circle=3216.990877275948
9 Circle{radius=12.0, color='white'}
10 Area of circle=452.3893421169302
11 Circle{radius=12.0, color='white'}
12 Circle{radius=12.0, color='white'}
13 Is equals? true
14 Hashcode for circles = -310506502
16 *****
17 ***testRectangle***
18 ******
19 Rectangle[length=1.0, width=1.0]
20 Perimeter =4.0
21 Area=1.0
22 Rectangle[length=5.0,width=3.0]
23 Perimeter=16.0
24 Area=15.0
25 Rectangle[length=5.0,width=3.0]
26 Rectangle[length=5.0, width=3.0]
27 Is equals? true
28 Hashcode for rectangles = 329269201
30 ******
31 ***testEmployee***
32 ******
33 Employee{id=1, firstname='Ivan', lastName='Ivanov',
  salary=30000}
34 Name: Ivan Ivanov
```

```
35 Salary =30000
36 Annual salary = 360000
37 Raising salary on 30%
38 New salary = 39000
39 New annual salary =468000
40 Employee{id=1, firstname='Ivan', lastName='Ivanov',
  salary=39000}
41 Employee{id=1, firstname='Ivan', lastName='Ivanov',
  salary=30000}
42 Is equals? false
43 Hashcode for employees = -1977476153
45 *******
46 ***testBook***
47 ******
48 Book{name='Thinking in Java', authors=[Author{name='
  Bruce Ekkel', email='null', gender=M}], price=1000.0
   , qty=0}
49 Name: Thinking in Java
50 Authors: Bruce Ekkel,
51 Price =1000.0
52
53 Book{name='Computer architecture', authors=[Author{
  name='John L Hennessy', email='null', gender=M},
  Author{name='David A Patterson', email='null', gender
  =M}], price=2500.0, qty=0}
54 Name: Computer architecture
55 Authors: John L Hennessy, David A Patterson,
56 Price =2500.0
57
58 Book{name='Computer architecture', authors=[Author{
  name='John L Hennessy', email='null', gender=M},
  Author{name='David A Patterson', email='null', qender
  =M}], price=2500.0, qty=0}
59 Book{name='Computer architecture', authors=[Author{
  name='John L Hennessy', email='null', gender=M},
  Author{name='David A Patterson', email='null', gender
  =M}], price=2500.0, qty=0}
60 Is equals? true
61 Hashcode for books = 1975771705
```

```
63 ******
64 ***testMyPoint***
65 *****
66 First point: (0,0)
67 [0, 0]
68 Second point: (3,4)
69 [3, 4]
70 Distance1 =5.0
71 Distance 2 = 5.0
72 Distance3 =5.0
73 (3,4)
74 (3,4)
75 Is equals? true
76 Hashcode for points = 16434
78 *******
79 ***testMyTriangle***
80 *****
81 MyTriangle{v1=(0,0), v2=(0,3), v3=(4,0)}
82 Perimeter =12.0
83 Type of triangle: Scalene
84 MyTriangle\{v1=(0,0), v2=(0,4), v3=(4,0)\}
85 Perimeter =13.65685424949238
86 Type of triangle: Isosceles
87 MyTriangle{v1=(0,0), v2=(0,4), v3=(4,0)}
88 MyTriangle{v1=(0,0), v2=(0,4), v3=(4,0)}
89 Is equals? true
90 Hashcode for triangles = 16729336
92 ******
93 ***TestMvComplex***
94 ******
95 Первое число: (3.0+9.0i)
96 Второе число: (2.0+7.0i)
97 Cymma =(5.0+16.0i)
98 Разность =(1.0+2.0i)
99 Произведение =(-57.0+39.0i)
100 Частное =(1.3018867924528301-0.05660377358490566i)
101 (2.0+7.0i)
102 (2.0+7.0i)
103 Is equals? true
```

```
104 Hashcode for numbers = 1835969
106 ******
107 ***TestMyPolinomial***
108 ******
109 Первый полином: 5.0x^4+8.0x^2+3.0
110 Степень полинома = 4
111 Значение при х=1: 16.0
112 Второй полином: 5.0x^5+3.0x^3+9.0x
113 Степень полинома = 5
114 Значение при х=1: 17.0
115 Сумма полиномов: 5.0x^5+5.0x^4+3.0x^3+8.0x^2+9.0x+3.
116 Произведение полиномов: 25.0x^9+55.0x^7+84.0x^5+81.
   0x^3+27.0x
117 \ 5.0x^5+3.0x^3+9.0x
118 \ 5.0x^5+3.0x^3+9.0x
119 Is equals? true
120 Hashcode for polinimials = 841235265
122 *******
123 ***TestBall***
124 ******
125 Ball[(0.0,0.0), radius=1, speed=(0.70710677,0.
   70710677)]
126 Мяч делает ход...
127 Ball[(0.70710677,0.70710677), radius=1, speed=(0.
   70710677, 0.70710677)]
128 Мяч делает ход...
129 Ball[(1.4142135,1.4142135), radius=1, speed=(0.
   70710677,0.70710677)]
130 Мяч поменял направление по горизонтали и делает ход
131 Ball[(0.70710677,2.1213202), radius=1, speed=(-0.
   70710677, 0.70710677)]
132 Мяч поменял направление по вертикали и делает ход...
133 Ball[(0.0,1.4142134), radius=1, speed=(-0.70710677,-
   0.70710677)
134 Ball[(0.0,1.4142134), radius=1, speed=(-0.70710677,-
   0.70710677)
135 Ball[(0.0,0.0), radius=1, speed=(0.70710677,0.
```

```
135 70710677)]
136 Is equals? false
137 Hashcode for balls = 61937776
139 ******
140 ***TestContainer***
141 ******
142 Container[(0,0),(5,5)]
143 Ball[(2.5,2.5), radius=2, speed=(0.0,0.0)]
144 Мяч в контейнере? = true
145 -----
146 Container[(0,0),(5,5)]
147 Ball[(2.5,2.5), radius=3, speed=(0.0,0.0)]
148 Мяч не влез в контейнер ' '
149 Мяч в контейнере? = false
150 -----
151 Container[(0,0),(5,5)]
152 Ball[(2.5,2.5), radius=2, speed=(0.70710677,0.
   70710677)]
153 Мяч в контейнере? = true
154 Мяч делает ход...
155 Ball[(3.2071068,3.2071068), radius=2, speed=(0.
   70710677, 0.70710677)]
156 Мяч в контейнере? = false
157 -----
158 Container[(0,0),(5,5)]
159 Container[(0,0),(5,5)]
160 Is equals? true
161 Hashcode for containers = 15704667
163 THE END
164
165 Process finished with exit code 0
166
```