```
 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=55066: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 =======================================
12 *******************
13 ***testRectangle***
14 *******************
15 Rectangle[length=1.0,width=1.0]
16 Perimeter =4.0
17 Area=1.0
18 Rectangle[length=5.0,width=3.0]
19 Perimeter=16.0
20 Area=15.0
21 =======================================
22 ******************
23 ***testEmployee***
24 ******************
25 Employee{id=1, firstname='Ivan', lastName='Ivanov',
   salary=30000}
26 Name: Ivan Ivanov
27 Salary =30000
28 Annual salary =360000
29 Raising salary on 30%
30 New salary =39000
31 New annual salary =468000
32 =======================================
33 **************
34 ***testBook***
```

```
35 *************
36 Book{name='Thinking in Java', authors=[Author{name='
   Bruce Ekkel', email='null', gender=M}], price=1000.0
   , qty=0}
37 Name:Thinking in Java
38 Authors:Bruce Ekkel,
39 Price =1000.0
40
41 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}
42 Name:Computer architecture
43 Authors:John L Hennessy,David A Patterson,
44 Price =2500.0
45 ======================================
46 *****************
47 ***testMyPoint***
48 *****************
49 First point: (0,0)
50 [0, 0]
51 Second point: (3,4)
52 [3, 4]
53 Distance1 =5.0
54 Distance2 =5.0
55 Distance3 =5.0
56 ======================================
57 ********************
58 ***testMyTriangle***
59 ********************
60 MyTriangle{v1=(0,0), v2=(0,3), v3=(4,0)}
61 Perimeter =12.0
62 Type of triangle: Scalene
63 MyTriangle{v1=(0,0), v2=(0,4), v3=(4,0)}
64 Perimeter =13.65685424949238
65 Type of triangle: Isosceles
66 ======================================
67 *******************
68 ***TestMyComplex***
69 *******************
70 Первое число: (3.0+9.0i)
```

```
 71 Второе число: (2.0+7.0i)
 72 Сумма =(5.0+16.0i)
 73 Разность =(1.0+2.0i)
 74 Произведение =(-57.0+39.0i)
 75 Частное =(1.3018867924528301-0.056603773584905566i)
 76 =========================================
 77 **********************
 78 ***TestMyPolinomial***
 79 **********************
 80 Первый полином: 5.0x^4+8.0x^2+3.0
 81 Степень полинома = 4
 82 Значение при x=1: 16.0
 83 Второй полином: 5.0x^5+3.0x^3+9.0x
 84 Степень полинома = 5
 85 Значение при x=1: 17.0
 86 Сумма полиномов: 5.0x^5+5.0x^4+3.0x^3+8.0x^2+9.0x+3.
    0
 87 Произведение полиномов: 25.0x^9+55.0x^7+84.0x^5+81.
    0x^3+27.0x
 88 =========================================
 89 **************
 90 ***TestBall***
 91 **************
 92 Ball[(0.0,0.0), radius=1, speed=(0.70710677,0.
    70710677)]
 93 Мяч делает ход...
 94 Ball[(0.70710677,0.70710677), radius=1, speed=(0.
    70710677,0.70710677)]
 95 Мяч делает ход...
 96 Ball[(1.4142135,1.4142135), radius=1, speed=(0.
    70710677,0.70710677)]
 97 Мяч поменял направление по горизонтали и делает ход
    ...
 98 Ball[(0.70710677,2.1213202), radius=1, speed=(-0.
    70710677,0.70710677)]
 99 Мяч поменял направление по вертикали и делает ход...
100 Ball[(0.0,1.4142134), radius=1, speed=(-0.70710677,-
    0.70710677)]
101 =========================================
102 ******************
103 ***TestContainer***
```

```
104 *******************
105 Container[(0,0),(5,5)]
106 Ball[(2.5,2.5), radius=2, speed=(0.0,0.0)]
107 Мяч в контейнере? = true
108 ----------------------------------------------
109 Container[(0,0),(5,5)]
110 Ball[(2.5,2.5), radius=3, speed=(0.0,0.0)]
111 Мяч не влез в контейнер '_'
112 Мяч в контейнере? = false
113 ----------------------------------------------
114 Container[(0,0),(5,5)]
115 Ball[(2.5,2.5), radius=2, speed=(0.70710677,0.
    70710677)]
116 Мяч в контейнере? = true
117 Мяч делает ход...
118 Ball[(3.2071068,3.2071068), radius=2, speed=(0.
    70710677,0.70710677)]
119 Мяч в контейнере? = false
120 ======================================
121 THE END
122
123 Process finished with exit code 0
124
```