Grupa: Data: _____

```
1. Care este rezultatul executiei codului urmator? (G5)
                                                               2. Ce afiseaza urmatorul program?
abstract class Abstract {
                                                               class A {
                                                                   public int x = 0;
    private int val;
    Abstract() { val = 10; }
    public void set(int val){
                                                               public class G10 {
        this.val= val+getValue();
                                                                   public A foo() {
                                                                        A = new A();
    public abstract int getValue();
                                                                        try { a.x = 1;
    public int get() { return val;}
                                                                            throw new NullPointerException();
                                                                        } catch (Exception e) {
class G5 extends Abstract {
                                                                            a.x = 2;
    public int getValue() {
                                                                            return a;
        return 1111;
                                                                        } finally { a.x = 3; }
                                                                   public static void main(String[] args) {
    public static void main(String[] args) {
        G5 \text{ obj} = \text{new } G5();
                                                                        G10 ex = new G10();
        obj.set(11);
                                                                        System.out.println(ex.foo().x);
        System.out.println(obj.get());
    }}
                                                               }
a) eroare la compilare
                         c) niciun răspuns corect
                                                               a) 2
                                                                                      c) se va arunca o exceptie la executie
                         d) 1122
                                                               b) 3
                                                                                      d) niciun raspuns corect
3. Ce afiseaza urmatorul program? (G12)
                                                                      4. Ce afiseaza urmatorul program?
public class R12 {
                                                                      class AA<E,T>{
    public static void main(String[] args) {
   Stream<String> ss = Stream.of("asd ","bus ","aop ");
                                                                          private E e;
                                                                          private ⊺ t;
        var res = ss
                                                                          public void setValueE(E e){ this.e = e;}
                                                                          public void setValueT(T t){ this.t = t;}
                 .filter(s -> {
                     System.out.print(s);
                                                                          public E getValue(){ return e; }
                     return s.contains("a");
                                                                          public T getValue1(){ return t; }
                 })
                 .map((x) \rightarrow
                                                                      public class Test {
                                                                          public static void main(String[] args) {
                     System.out.print(x);
                                                                               AA bb = new AA<Integer, String>();
                                                                               bb.setValueE(1010); bb.setValueE("asfd");
                     return x.toUpperCase();
                                                                               System.out.print(bb.getValue()+" "+
                 .reduce("", (x, y) -> x + y);
                                                                      bb.getValue1());
        System.out.println(res);
                                                                          }
    }}
a) asd bus app asd bus app ASD AOP
                                            c) ASD AOP
                                                                      a) asfd null
                                                                                                     c) 1010 asfd
b) asd asd bus aop aop ASD AOP
                                            d) eroare
                                                                      b) 1010 null
                                                                                                     d) eroare la compilare
```

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5. Ce afiseaza urmatorul program?
class Pizza {
    protected int id;
    public Pizza(int id) {this.id = id;}
    public Pizza() { }
    public boolean equals(Pizza obj) { return obj.id ==this.id;
    } } //end Pizza class
class PizzaWithCheese extends Pizza {
    private String topping;
    public PizzaWithCheese(int id,String topping) {
        super(id);
        this.topping=topping;
    public boolean equals(PizzaWithCheese obj) {
        return super.equals(obj) &&
                          this.topping.equals(obj.topping);
    }}
public class G6 {
    public static void main(String[] args) {
        PizzaWithCheese pizza1 =
                new PizzaWithCheese(1, "mozzarella");
        PizzaWithCheese pizza2 =
                new PizzaWithCheese(1, "feta");
        Pizza pizza3 = new PizzaWithCheese(1, "burduf");
        Pizza[] x={pizza1,pizza2};
        System.out.print(pizza1.equals(pizza2) +" ");
        System.out.print(x[0].equals(x[1]) +" ");
        System.out.print(pizza3.equals(pizza2) +" ");
a) false true true
                      c) false false false
b) false true false
                     d) eroare la compilare
6. Ce afiseaza urmatorul program?
                                                        7. Ce afiseaza urmatorul program?
                                                        class EmailSender {
 1
      class Contact {
                                                            private String message;
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 22 12 23
          public String Name = "Mapescu I ";
                                                            public EmailSender(String s) { message=s;}
          class Numar1 {
                                                            public String run() {
              private String nr = "0987654321";
                                                                System.out.print(message+" ");
              public String ContactNou() {
                                                                return "sent";
                  return Name + nr;
          static class Numar2 {
                                                        public class G30 {
              private String nr = "0945654321";
                                                            static final Integer NTHREDS=5;
              public String ContactNou() {
                                                            public static void main(String[] args)
                  return Name + nr;
                                                                     throws InterruptedException {
              }
                                                                ExecutorService executor =
          }
                                                                                  Executors.newFixedThreadPool(NTHREDS);
                                                                List<Callable<String>> l=new ArrayList<>();
      public class G12 {
                                                                for (int i = 0; i < 3; i++) {
          public static void main(String[] args) {
                                                                     Callable<String> worker = new EmailSender("m"+i)::run;
              Contact c=new Contact();
                                                                     1.add(worker);
              Contact.Numar1 c1=c.new Numar1();
              Contact.Numar2 c2=new Contact.Numar2();
              System.out.println(c1.ContactNou());
                                                                List<Future<String>> futures = executor.invokeAll(1);
              System.out.println(c2.ContactNou());
                                                                executor.shutdown();
          }
                                                            }
                                                        }
a) eroare la compilare
                         c) Mapescu I 0987654321
                                                        a) m1 m2 m0
                                                                                       b) se arunca exceptia
in linia 12
                            Mapescu I 0945654321
                                                        sau o permutare a lor
                                                                                       InterruptedException, la executie,
                                                                                       executorul fiind oprit fortat
b) eroare la compilare
                         d) eroare la executie
                                                        c) m1 sent m2 sent m0 sent
                                                                                       d) eroare la compilare
```

sau o permutare a lor

in linia19

```
Care este rezultatul executiei codului urmator?
                                                                  Care este rezultatul executiei codului urmator?
interface Formula {
                                                              class Student {
    double calculate(double a);
                                                                  String name;
                                                                  int varsta;
class A implements Formula {
                                                                  Student(int v) { varsta = v; }
    static int var1 =100;
                                                                  Student(String n, int v) { name = n; varsta = v;}
    double x=9;
                                                                  @Override public String toString() {
                                                                      return name+" "+varsta;
    public double calculate(double a) {
        double x =A.this.var1*a;
        Formula f = (double b) -> {
                                                              public class G16 {
            return Math.abs(x);
                                                                  public static void main(String[] args) {
                                                                      TreeSet<Integer> i = new TreeSet<Integer>();
        return f.calculate(a);
                                                                      TreeSet<Student> s = new TreeSet<Student>(
    }
                                                                              (x,y)->x.varsta-y.varsta
                                                                      );
public class R11 {
                                                                      s.add(new Student("S",19));
                                                                      s.add(new Student("D",20));
    public static void main(String[] args) {
                                                                      s.add(new Student("M",19));
        System.out.printf("%.0f",new A().calculate(10));
                                                                      i.add(1); i.add(2); i.add(1);
}
                                                                      System.out.println(s+" "+i);
a) 1001
                         c) 1000
                                                              a) eroare la compilare
                                                                                            c) [S 19, D 20] [1, 2]
b) eroare la compilare
                                                              b) eroare la executie
                                                                                            d) [S 19, M 19, D 20] [1, 2]
                         d) niciun raspuns corect
10. Ce afiseaza urmatorul program?
                                                                     11. Ce afiseaza urmatorul program?
public class G226 {
                                                                     class AA<E,T>{
    public static void main(String[] args) {
                                                                         private E e;
        Stream<String> ss = Stream.of("ee ","xe ","xe y ");
                                                                         private T t;
        var res = ss
                                                                         public void setValueE(E e){ this.e = e;}
                 .filter(s -> {
                                                                         public void setValueT(T t){ this.t = t;}
                    System.out.print(s);
                                                                         public E getValue(){ return e; }
                     return s.contains("x");
                                                                         public T getValue1(){ return t; }
                })
                                                                    public class Test {
                 .map((x) ->
                                                                         public static void main(String[] args) {
                {
                                                                             AA bb = new AA<Integer, String>();
                    System.out.print(x);
                                                                             bb.setValueE(1010); bb.setValueE("xyzt");
                     return x.toUpperCase();
                                                                             System.out.print(bb.getValue()+" "+
                 .reduce((x, y) \rightarrow x + y);
                                                                     bb.getValue1());
        res.ifPresent(System.out::print);
a) ee xe xe y xe xe y XE XE Y
                                     c) ee xe xe xe y xe y XE XE Y
                                                                                              c) niciun raspuns corect
                                                                     a) xyzt null
b) niciun raspuns corect
                                    d) ee xe xe xe y xe y
                                                                    b) 1010 xyzt
                                                                                              d) eroare la compilare
```

```
12. Ce afiseaza urmatorul program?
class Patrat{
    public int latimea;
    public Patrat(int 1){
        latimea =1;}
class Dreptunghi extends Patrat{
    public int lungimea;
    public Dreptunghi(int 1, int L) {
        super(2);lungimea=L;
    public void zoomIn(int dx) {
        this(latimea+dx,lungimea+dx);
    public int getArea() {
        return latimea *lungimea;
public class G8 {
    public static void main(String[] args) {
        Dreptunghi d=new Dreptunghi(2,3);
        d.zoomIn(2);
        System.out.println(d.getArea());
}
a) 20
                                                                    a) nu se afiseaza nimic
                                                                                             c) Artist Artist
                          c) niciun raspuns corect
b) eroare la executie
                                                                    b) Pictor Pictor
                                                                                             d) eroare la compilare
                          d) 6
13. Ce afiseaza urmatorul program?
                                                       14. Ce afiseaza urmatorul program?
                                                       class EmailSender {
    public int x = 0;
                                                           private String message;
                                                           public EmailSender(String s) { message=s;}
public class G10 {
                                                           public String run() {
                                                               System.out.print(message+" ");
    public A foo() {
                                                               return "done";
        A = new A();
        try { a.x = 1;
            throw new NullPointerException();
                                                       public class G30 {
        } catch (Exception e) {
            a.x = 2;
                                                           public static void main(String[] args)
            return a;
                                                                   throws InterruptedException {
        } finally { a.x = 3; }
                                                               ExecutorService executor =
                                                                                 Executors.newFixedThreadPool(3);
    public static void main(String[] args) {
                                                               List<Callable<String>> l=new ArrayList<>();
                                                               for (int i = 1; i < 3; i++) {
        G10 ex = new G10();
        System.out.println(ex.foo().x);
                                                                   Callable<String> worker = new
                                                                                      EmailSender("meeting"+i)::run;
    }
                                                                   1.add(worker);
}
                                                               List<Future<String>> futures = executor.invokeAll(1);
                                                               executor.shutdown();
                                                           }
                         c) se va arunca o exceptie la
a) 2
                                                       a) "meeting1 meeting2"
                                                                                                 b) niciun raspuns corect
                                                       sau "meeting2 meeting"
                         executie
b) 3
                         d) niciun raspuns corect
                                                       c) "meeting1 done meeting2 done" sau
                                                                                                 d) eroare la executie
                                                       "meeting2 done meeting1 done"
```