```
a) if (grade >= 90) System.out.println("Great job!")
b) if (num < 20 || num > 50) System.out.println("Error")
c) if (y < 100) y += 2
2.if (num1 > num2) System.out.println("First number is larger")
else if (num2 > num1) System.out.println("Second number is larger")
else System.out.println("Numbers are equal")
3.
a) even odd
b) switch(num % 2) { case 0: System.out.println("even number"); break; default:
System.out.println("odd number"); }
4.
a) rand.nextInt(50) + 1
b) rand.nextInt(81) + 20
c) rand.nextDouble() * 10 + 10
5. Error: age == 18 not covered age == 65 not covered
6.
a) true
b) false
c) true
d) true
e) true
f) true
g) true
7.
a) Math.pow(y, x)
b) Math.abs(y)
c) Math.sqrt(y)
8.
a) true
b) false integers compare exactly
c) false not same
d) false must be int char string enum
e) true
f) false same sequence
g) true
h) true
```

1.

- i) false ! before &&
- j) true
- k) false needs Math.abs
- I) true