Cset 265 Lecture 2 Assignment 1

1. import java.util.Scanner;  
     
   public class Main{  
    public static void main(String[] args){  
    Scanner input = new Scanner(System.*in*);  
     
    System.*out*.print("Input value 1: ");  
    int value1 = input.nextInt();  
     
    System.*out*.print("Input value 2: ");  
    int value2 = input.nextInt();  
     
    System.*out*.print("Input value 3: ");  
    int value3 = input.nextInt();  
     
    int maiorAB = (value1 + value2 + Math.*abs*(value1 - value2)) / 2;  
     
    if (maiorAB > value3){  
    System.*out*.println(maiorAB + "eh o maior");  
    } else {  
    System.*out*.println(value3 + "eh o maior");  
    }  
     
    }  
   }
2. import java.util.Scanner;  
     
   public class Main{  
    public static void main(String[] args){  
    Scanner input = new Scanner(System.*in*);  
     
    System.*out*.print("Input value 1: ");  
    int a = input.nextInt();  
     
    System.*out*.print("Input value 2: ");  
    int b = input.nextInt();  
     
    System.*out*.print("Input value 3: ");  
    int c = input.nextInt();  
     
    System.*out*.print("Input value 4: ");  
    int d = input.nextInt();  
     
    if(b > c && d > a && c + d > a + b && d > 0 && a % 2 == 0){  
    System.*out*.println("Valores aceitos");  
    } else {  
    System.*out*.println("Valores nao aceitosr");  
    }  
     
    }  
   }
3. import java.util.HashMap;  
   import java.util.Scanner;  
     
   public class Main{  
    public static void main(String[] args){  
    Scanner input = new Scanner(System.*in*);  
    HashMap<Integer, Float> items = new HashMap<>();  
     
    items.put(1, 4.00f);  
    items.put(2, 4.50f);  
    items.put(3, 5.00f);  
    items.put(4, 2.00f);  
    items.put(5, 1.50f);  
     
    System.*out*.print("Input code of item: ");  
    int code = input.nextInt();  
     
    System.*out*.print("Input quantity of item: ");  
    int quantity = input.nextInt();  
     
    float total = items.get(code) \* quantity;  
     
    System.*out*.printf("Total: R$ %.2f", total);  
    }  
   }
4. import java.util.HashMap;  
   import java.util.Scanner;  
     
   public class Main{  
    public static void main(String[] args){  
    Scanner input = new Scanner(System.*in*);  
     
    System.*out*.print("Input float num: ");  
    float num = input.nextFloat();  
     
    if(num < 0 || num > 100){  
    System.*out*.println("Fora de intervalo");  
    } else if(num >= 0 && num <= 25){  
    System.*out*.println("Intervalo (25,50]");  
    } else if(num > (double) 25 && num <= (double) 50){  
    System.*out*.println("Intervalo (25,50]");  
    } else if(num > (double) 50 && num <= (double) 75){  
    System.*out*.println("Intervalo (50, 75]");  
    } else {  
    System.*out*.println("Intervalo (75,100]");  
    }  
    }  
   }
5. import java.util.HashMap;  
   import java.util.Scanner;  
     
   public class Main{  
    public static void main(String[] args){  
    Scanner input = new Scanner(System.*in*);  
     
    System.*out*.print("Input x cord: ");  
    float x = input.nextFloat();  
     
    System.*out*.print("Input y cord: ");  
    float y = input.nextFloat();  
     
    if(x == 0 && y == 0){  
    System.*out*.println("Origet");  
    }  
    else if(x == 0){  
    System.*out*.println("Eixo X");  
    } else if(y == 0){  
    System.*out*.println("Eixo Y");  
    } else if(x > 0 && y > 0){  
    System.*out*.println("Q1");  
    } else if(x < 0 && y > 0){  
    System.*out*.println("Q2");  
    } else if(x < 0 && y < 0){  
    System.*out*.println("Q3");  
    } else {  
    System.*out*.println("Q4");  
    }  
    }  
   }
6. import java.util.HashMap;  
   import java.util.Scanner;  
     
   public class Main{  
    public static void main(String[] args){  
    Scanner input = new Scanner(System.*in*);  
     
    System.*out*.print("Input an int: ");  
    int a = input.nextInt();  
     
    System.*out*.print("Input an int: ");  
    int b = input.nextInt();  
     
    if(a % b == 0 || b % a == 0){  
    System.*out*.println("Sao Multiplos");  
    } else {  
    System.*out*.println("Nao sao Multiplos");  
    }  
    }  
   }
7. import java.util.HashMap;  
   import java.util.Scanner;  
     
   public class Main{  
    public static void main(String[] args){  
    Scanner input = new Scanner(System.*in*);  
     
    System.*out*.print("Input gpa: ");  
    float gpa1 = input.nextFloat();  
     
    System.*out*.print("Input gpa: ");  
    float gpa2 = input.nextFloat();  
     
    System.*out*.print("Input gpa: ");  
    float gpa3 = input.nextFloat();  
     
    System.*out*.print("Input gpa: ");  
    float gpa4 = input.nextFloat();  
     
    float gpaAverage = (gpa1 + gpa2 + gpa3 + gpa4) / 4;  
     
     
    if(gpaAverage >= 7.0){  
    System.*out*.printf("Media: %.1f\n", gpaAverage);  
    System.*out*.println("Aluno aprovado");  
    } else if (gpaAverage > 5.0) {  
    System.*out*.printf("Media: %.1f\n", gpaAverage);  
    System.*out*.println("Aluno reprovado");  
    } else {  
    System.*out*.println("Aluno em exame");  
    System.*out*.printf("Media: %.1f\n", gpaAverage);  
    System.*out*.print("Insert next score: ");  
    float gpa5 = input.nextFloat();  
    System.*out*.printf("Nota do exame: %.1f\n", gpa5);  
     
    float newAverage = (gpaAverage + gpa5) / 2;  
     
    if(newAverage >= 5.0){  
    System.*out*.println("Aluno aprovado");  
    } else {  
    System.*out*.println("Aluno reprovado");  
    }  
     
    System.*out*.printf("Media final: %.1f", newAverage);  
    }  
    }  
   }
8. import java.util.Scanner;  
     
   public class Main{  
    public static void main(String[] args){  
    Scanner input = new Scanner(System.*in*);  
     
    System.*out*.print("Input one side of the triangle length: ");  
    float a = input.nextFloat();  
     
    System.*out*.print("Input another side of the triangle length: ");  
    float b = input.nextFloat();  
     
    System.*out*.print("Input another side of the triangle length: ");  
    float c = input.nextFloat();  
     
    if(a + b > c && b + c > a && c + a > b){  
    System.*out*.println("Perimeter: " + (a + b + c));  
    } else {  
    System.*out*.println("Area: " + (((a + b) \* c) / 2));  
    }  
    }  
   }
9. import java.util.Scanner;  
     
   public class Main{  
    public static void main(String[] args){  
    Scanner input = new Scanner(System.*in*);  
     
    System.*out*.print("Input a number: ");  
    int n = input.nextInt();  
     
    for(int i = 0; i <= 10; i++){  
    System.*out*.printf("%d X %d = %d\n", i, n, n\*i);  
    }  
    }  
   }
10. import java.util.Scanner;  
      
    public class Main{  
     public static void main(String[] args){  
     Scanner input = new Scanner(System.*in*);  
      
     int[] nums = new int[5];  
      
     for(int i = 0; i < 5; i++){  
     System.*out*.print("Input a number: ");  
     int num = input.nextInt();  
      
     if(num < 0 || num == 0){  
     nums[i] = 1;  
     } else {  
     nums[i] = num;  
     }  
     }  
      
     for(int i : nums){  
     System.*out*.println(i);  
     }  
     }  
    }