HACKER RANK QUESTIONS

1. import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

String Name = s.next();

System.out.println("Hello");

System.out.println(Name);

}

}

2. import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Read inputs

int intNum = sc.nextInt();

float floatNum = sc.nextFloat();

// Print outputs

System.out.println(intNum);

System.out.printf("%.2f", floatNum); // prints float with 2 decimal places

sc.close();

}

}

3. import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Read only the first word (ignores the rest)

String word = sc.next();

// Print output with statement

System.out.println("May I know how to learn " + word + "!!!...");

sc.close();

}

}

4. import java.util.Scanner;

public class Solution {

public static void main(String[] args) {

// Create a Scanner object to read input from the user

Scanner sc = new Scanner(System.in);

// Read the entire line as the name

String name = sc.nextLine();

// Print the greeting message

System.out.println("Hai " + name + "! Welcome to Programming Language...");

// Close the scanner

sc.close();

}

}

5. import java.util.Scanner;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// First input: float value for floor and ceil

double floatValue = sc.nextDouble();

// Second input: integer value for square root

int squareValue = sc.nextInt();

// Third input: integer value for base of power

int baseValue = sc.nextInt();

// Fourth input: integer value for exponent of power

int powerValue = sc.nextInt();

// Calculations using Math functions

int floorValue = (int) Math.floor(floatValue);

int ceilValue = (int) Math.ceil(floatValue);

int sqrtValue = (int) Math.sqrt(squareValue);

int powValue = (int) Math.pow(baseValue, powerValue);

// Print results

System.out.println(floorValue);

System.out.println(ceilValue);

System.out.println(sqrtValue);

System.out.println(powValue);

sc.close();

}

}

6. import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

float num = sc.nextFloat(); // Input float value

// 1. Default float printing (shows binary precision issue sometimes)

System.out.printf("%f%n", num);

// 2. Print with 4 decimal digits

System.out.printf("%.4f%n", num);

// 3. Print with 2 decimal digits

System.out.printf("%.2f%n", num);

// 4. Convert to integer (rounding)

System.out.println(Math.round(num));

}

}

7. import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Input 4 integers

int x1 = sc.nextInt();

int y1 = sc.nextInt();

int x2 = sc.nextInt();

int y2 = sc.nextInt();

// Calculate midpoint

double midX = (x1 + x2) / 2.0;

double midY = (y1 + y2) / 2.0;

// Output in required format

System.out.printf("Binoy's house is located at (%.1f,%.1f)", midX, midY);

}

}

8. import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Input values

int x = sc.nextInt(); // number of copies sold

int a = sc.nextInt(); // cost per copy (selling price)

int b = sc.nextInt(); // cost spent per copy (agency cost)

// Calculate profit

double profit = (x \* (a - b)) - 100;

// Output as per given format

System.out.println("Number of copies sold:" + x);

System.out.println("Cost of each copy:" + a);

System.out.println("Cost spent by agency on each newspaper:" + b);

System.out.printf("The profit obtained is Rs.%.2f", profit);

}

}

9. import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Input (2-digit number)

int num = sc.nextInt();

// Find sum of digits

int d1 = num / 10; // tens place

int d2 = num % 10; // ones place

int sum = d1 + d2;

// Output as per format

System.out.println("Bird said:" + num);

System.out.println("Alice must go in path-" + sum);

}

}

10. import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Inputs

int base = sc.nextInt();

int height = sc.nextInt();

int side1 = sc.nextInt();

int side2 = sc.nextInt();

int side3 = sc.nextInt();

// Calculate area and perimeter

double area = 0.5 \* base \* height;

double perimeter = side1 + side2 + side3;

// Output with 2 decimal places

System.out.printf("Area of Triangle is %.2f\n", area);

System.out.printf("Perimeter of Triangle is %.2f", perimeter);

}

}

11. import java.util.Scanner;

public class GrossSalaryCalculator {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Read basic salary

double basicSalary = sc.nextDouble();

double HRA, DA;

// Calculate HRA and DA based on basic salary

if (basicSalary < 15000) {

HRA = 0.15 \* basicSalary;

DA = 0.90 \* basicSalary;

} else {

HRA = 5000;

DA = 0.98 \* basicSalary;

}

// Calculate gross salary

double grossSalary = basicSalary + HRA + DA;

// Print result with 2 decimal places

System.out.printf("%.2f", grossSalary);

sc.close();

}

}

12. import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

String Name = s.next();

int noa = s.nextInt();

int cgpa = s.nextInt();

if(noa <= 1 && cgpa > 70){

System.out.println("Name of the Student:"+Name);

System.out.print(""+Name+" is Eligible for Placement");

}

else if(noa <= 2 && cgpa > 75){

System.out.println("Name of the Student:"+Name);

System.out.print(""+Name+" is Eligible for Placement");

}

else{

System.out.println("Name of the Student:"+Name);

System.out.print(""+Name+" is Not Eligible for Placement");

}

/\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. \*/

}

}

13. import java.util.Scanner;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Read initial balance

int balance = sc.nextInt();

// Read the process choice (1 for deposit, 2 for withdrawal, others invalid)

int process = sc.nextInt();

switch (process) {

case 1: // Deposit

int depositAmount = sc.nextInt();

balance += depositAmount;

System.out.println(balance);

break;

case 2: // Withdrawal

int withdrawAmount = sc.nextInt();

if (withdrawAmount > balance) {

System.out.println("Insufficient Balance");

} else {

balance -= withdrawAmount;

System.out.println(balance);

}

break;

default: // Invalid input

System.out.println("Invalid Input");

break;

}

sc.close();

}

}