**Curious Coders**

**Week 1 – Problem Set 1:**

**Prob 1: Write a program that takes an integer, then a string, then a char from the user and prints them in the screen.**

**Input:  2 Name y**

**Expected Output:**

**2**

**Name**

**Y**

**Code:**

// Online Java Compiler

import java.util.\*;

class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a Integer : ");

int a = scanner.nextInt();

scanner.nextLine();

System.out.print("Enter a String : ");

String b = scanner.nextLine();

System.out.print("Enter a Integer Again : ");

int c = scanner.nextInt();

System.out.println(a);

System.out.println(b);

System.out.println(c);

}

}

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**Prob 2: Write a program to check whether a triangle can be formed with the given values for the angles.**

**If sum of angles is equal to 180, then triangle can be formed, else it can't be formed.**

**Input: 45 45 45**

**Expected Output:**

**Triangle cannot be formed**

**Explanation -> We are getting 3 inputs, that is three angles of triangle, but here the sum of three angles that is 45+45+45 is not equal to 180 so Triangle cannot be formed is the output.**

**Code:**

import java.util.\*;

class Main {

public static void main(String[] args) {

int a,b,c;

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the first number : ");

a=scanner.nextInt();

System.out.print("Enter the second number : ");

b=scanner.nextInt();

System.out.print("Enter the third number : ");

c=scanner.nextInt();

if((a+b+c)==180){

System.out.print("Triangle can be formed");

}else

System.out.print("Triangle cannot be formed");

}

}

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**Prob 3:**

**Given mark of student, Print the Grade**

**Grade A if mark is greater than or equal to 90**

**Grade B if mark is greater than or equal to 80**

**Grade C if mark if greater than or equal to 60**

**Grade D if mark if greater than or equal to 35**

**Fail if mark is lesser than 35**

**Input: 95**

**Expected Output:**

**Grade A**

**Explanation: Here 95 is greater than or equal to 90 so its Grade A**

**Code:**

import java.util.\*;

class Main {

public static void main(String[] args) {

int mark;

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the Mark scored : ");

mark=scanner.nextInt();

if(mark>=90){

System.out.print("Grade A");

}else if(mark>=80){

System.out.print("Grade B");

}else if(mark>=60){

System.out.print("Grade C");

}else if(mark>=35){

System.out.print("Grade D");

}else

System.out.print("Fail");

}

}

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**Prob 4: Write a program using switch case which takes a value and prints the respective Size.  
If size is 29 then its small**

**If size is 30 then its Medium**

**If size is 38 then its Large**

**If size is 42 then its XLarge**

**If size is not any of the above then Invalid.**

**Input: 29**

**Expected Output:**

**Small**

**Code:**

import java.util.\*;

class Main {

public static void main(String[] args) {

int size;

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the size : ");

size=scanner.nextInt();

switch(size){

case 29:

System.out.print("Small");

break;

case 30:

System.out.print("Medium");

break;

case 38:

System.out.print("Large");

break;

case 42:

System.out.print("XLarge");

break;

default:

System.out.print("Invalid");

}

}

}

**Week 1 – Problem Set 2:**

**Prob 1:**

**Write a program which takes two values x and y. Prints x for y number of times.**

**Input:**

**2**

**3**

**Expected Output**

**2**

**2**

**2**

**Explanation - 2 is x and 3 is y in the input. So 2 is printed 3 times on the output.**

**Code:**

import java.util.\*;

class Main {

public static void main(String[] args) {

int x,y;

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the x value : ");

x=scanner.nextInt();

System.out.print("Enter the y value : ");

y=scanner.nextInt();

for(int i=0;i<y;i++){

System.out.println(x);

}

}

}

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**Prob 2:**

**Write a program to take x and print multiples of x till 1000.**

**Input:**

**100**

**Expected Output:**

**100**

**200**

**300**

**400**

**500**

**600**

**700**

**800**

**900**

**1000**

**Explanation - Input is 100, multiples of 100 is 100\*1, 100\*2, 100\*3 and so on till 1000.**

**Code:**

import java.util.\*;

class Main {

public static void main(String[] args) {

int x;

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the value of x : ");

x=scanner.nextInt();

for(int i=x;i<=1000;i=i+x){

System.out.println(i);

}

}

}

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**Prob 3:**

**Write a program to get firstName and lastName and n as input and print fullName that is firstName+lastName for n times.**

**Input**

**Nandy**

**Raja**

**5**

**Expected output:**

**NandyRaja**

**NandyRaja**

**NandyRaja**

**NandyRaja**

**NandyRaja**

**Explanation - Nandy is the firstName, Raja is the lastName and n is 5, so the expected output has NandyRaja printed 5 times.**

**Code:**

// Online Java Compiler

// Use this editor to write, compile and run your Java code online

import java.util.\*;

class Main {

public static void main(String[] args) {

int x;

String a,b;

Scanner scanner = new Scanner(System.in);

System.out.print("Enter firstName : ");

a=scanner.nextLine();

System.out.print("Enter lastName : ");

b=scanner.nextLine();

System.out.print("Enter the value of x : ");

x=scanner.nextInt();

for(int i=0;i<x;i++){

System.out.println(a+b);

}

}

}

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