**University of Gondar**

**Collage of Informatics**

**Information Systems Department**

**Lab Assignment**

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1. Do the following Real world Exercise in the Lab using class and objects, array, loop, conditional statements and ….. (Hint: create your own variables and methods inside the class)
2. Write a java program that compute the Grading System?

Import java.util.Scanner;public class JavaExample{

Public static void main(String args[])

{

/\* This program assumes that the student has 6 subjects,

\* that’s why I have created the array of size 6. You can

\* change this as per the requirement.

\*/

Int marks[] = new int[6];

Int I;

Float total=0, avg;

Scanner scanner = new Scanner(System.in);

For(i=0; i<6; i++) {

System.out.print(“Enter Marks of Subject”+(i+1)+”:”);

Marks[i] = scanner.nextInt();

Total = total + marks[i];

}

Scanner.close();

//Calculating average here

Avg = total/6;

System.out.print(“The student Grade is: “);

If(avg>=80)

{

System.out.print(“A”);

}

Else if(avg>=60 && avg<80)

{

System.out.print(“B”);

}

Else if(avg>=40 && avg<60)

{

System.out.print(“C”);

}

Else

{

System.out.print(“D”);

}

}

}

1. Write a java program that work as a calculator?

Import java.io.\*;

Import java.lang.\*;

Import java.lang.Math;

Import java.util.Scanner;

Public class BasicCalculator {

Public static void main(String[] args)

{

Double num1, num2;

Scanner sc = new Scanner(System.in);

System.out.println(“Enter the numbers”);

Num1 = sc.nextDouble();

Num2 = sc.nextDouble();

System.out.println(“Enter the operator (+,-,\*,/)”);

Char op = sc.next().charAt(0);

Double o = 0;

Switch (op) {

Case ‘+’:

O = num1 + num2;

Break;

Case ‘-‘:

O = num1 – num2;

Break;

Case ‘\*’:

O = num1 \* num2;

Break;

Case ‘/’:

O = num1 / num2;

Break;

Default:

System.out.println(“You enter wrong input”);

Break;

}

System.out.println(“The final result:”);

System.out.println();

System.out.println(num1 + “ “ + op + “ “ + num2

+ “ = “ + o);

}

}

1. Write a java program that compute Fibonacci series?

Package Edureka;

Import java.util.Scanner;

Public class Fibonacci {

Public static void main(String[] args)

{

Int n, first = 0,next = 1;

System.out.println(“Enter how may fibonnaci numbers to print”);

Scanner scanner = new Scanner(System.in);

N = scanner.nextInt();

System.out.print(“The first “ + n + “ Fibonacci numbers are: “);

System.out.print(first + “ “ + next);

For (int I = 1; i<=n-2; ++i)

{

Int sum = first + next;

First = next;

Next = sum;

System.out.print(“ “ + sum);

}

}

}

1. Write a java program that sorts the following array in ascending order?

Array = {89, 19, 22, 15, 29, 92, 42, 75, 38, 56, 61, 7};

Public class SortAsc {

Public static void main(String[] args) {

//Initialize array

Int [] arr = new int [] {89, 19, 22, 15, 29, 92, 42, 75, 38, 56, 61, 7};

Int temp = 0;

System.out.println(“Elements of original array”);

//Displaying elements of original array

For (int I = 0; I < arr.length; i++) {

System.out.print(arr[i] + “ “);

}

//Sort the array in ascending order

For (int I = 0; I < arr.length; i++) {

For (int j = i+1; j < arr.length; j++) {

If(arr[i] > arr[j]) {

Temp = arr[i];

Arr[i] = arr[j];

Arr[j] = temp;

}

}

}

System.out.println();

//Displaying elements of array after sorting

System.out.println(“Elements of array sorted in ascending order:”);

For (int I = 0; I < arr.length; i++) {

System.out.print(arr[i] + “ “);

}

}

}

1. Write a java program that print out all of the prime number between 1 and 100?

Public class Prime

{

Public static void main(String[] args)

{

Int ct=0,n=0,i=1,j=1;

While(n<25)

{

J=1;

Ct=0;

While(j<=i)

{

If(i%j==0)

Ct++;

J++;

}

If(ct==2)

{

System.out.printf(“%d “,i);

N++;

}

I++;

}

}

}

1. Write a java program that adds all “**Odd**” integer between 20 and 56 and print the result?

// Java Program to find Sum of Odd Numbers between Maximum and Minimum

Import java.util.Scanner;

Public class SumofOdd {

Private static Scanner sc;

Public static void main(String[] args)

{

Int minimum, maximum, oddSum = 0;

Sc = new Scanner(System.in);

Minimum = 20;

Maximum = 56;

oddSum = sumOfOdd(minimum, maximum);

System.out.println(“\n The Sum of Odd Numbers from “ + minimum + “ to “ + maximum + “ = “ + oddSum);

}

Public static int sumOfOdd(int minimum, int maximum)

{

Int I, sum = 0;

If(minimum % 2 != 0)

{

Minimum++;

}

For(I = minimum; I <= maximum; i++)

{

If(I % 2 != 0)

{

Sum = sum + I;

}

}

Return sum;

}

}