**Week 2:**

**Homework**

**1-  Ask user to enter the years of service and current salary, add the following logic**

**if employee years of service is 5 or more AND salary is greater than 5,000 then they get additional 2,000 bonus otherwise they get 1,000 bonus**

public class Servicesalary {

public static void main (String arg[]){

int serviceyear, salary, bonus;

Scanner sc = new Scanner (System.in);

System.out.println("Enter salary");

salary = sc.nextInt ();

System.out.println("Enter serviceyear ");

serviceyear = sc.nextInt();

if (serviceyear>=5 && salary>=5000){

System.out.println("Bonus="+2000);

}else {

System.out.println("Bonus="+1000);

}

}

}

**2- As we explained login program ask user to enter username, password and pin , if all is correctly enter then show login successful**

public class Login {

public static void main (String args[]){

String username, password;

Scanner sc = new Scanner(System.in);

System.out.println("Enter username");

username = sc.next();

System.out.println("Enter password");

password = sc.next();

if(username.equals("tom")&& password.equals("tom123")){

System.out.println("Login successful");

}else{

System.out.println("Login fall");

}

}

}

**3- Ask user to enter name, and three subjects (sub1, sub2, sub3) , then calculate  total , average   
   if average is greater than 60 then they pass**

public class Grade {

public static void main (String args[]){

int sub1, sub2, sub3, total, avg;

char grade;

sub1=50;

sub2=60;

sub3=80;

total = sub1 +sub2 +sub3;

avg = total /3;

if (avg <60){

grade ='F';

}else if (avg<70){

grade = 'D';

}else if (avg<80){

grade = 'C';

}else if (avg<90){

grade = 'B';

}else grade = 'A';{

}

System.out.println("Sub1" + sub1);

System.out.println("Sub2 + sub2");

System.out.println("Sub3 + sub3");

System.out.println("Final Grade" + grade);

}

}

**LAB**

**Print: 10,20,30,40**

public class Foodmenu5 {

@SuppressWarnings("empty-statement")

public static void main(String args[]){

for(int i=10; i<=40; i=i+10) {

System.out.println("i=" +i);

}

}

}

**Print: 40,50,60,70**

public class Foodmenu5 {

@SuppressWarnings("empty-statement")

public static void main(String args[]){

for(int i=40; i<=70; i=i+10) {

System.out.println("i=" +i);

}

}

}

**Print: 16,9,4,1**

public class Foodmenu5 {

@SuppressWarnings("empty-statement")

public static void main(String args[]){

for(int i=4; i>=1; i=i-1) {

System.out.println(i\*i + " ");

}

}

}

**Print: 80,70,60,50**

public class Foodmenu5 {

@SuppressWarnings("empty-statement")

public static void main(String args[]){

for(int i=80; i>=50; i=i-10) {

System.out.println("i="+i);

}

}

}

**Print: 9,8,7,6**

public class Foodmenu5 {

@SuppressWarnings("empty-statement")

public static void main(String args[]){

for(int i=9; i>=6; i=i-1) {

System.out.println("i="+i);

}

}

}

**Print :10,20,30,40 (using while loop)**

int j =10;//initial value

while(j<=40){

System.out.println("j="+j);

j = j+10;//increment

}

}

}

**Print:40,50,60,70(using while loop)**

int j =40;//intial value

while(j<=70){

System.out.println("j=" +j );

j = j+10;//increament

}

}

}

**Print: 80,70,60,50**

int j =80;//intial value

while(j>=50){

System.out.println("j=" +j );

j = j-10;//decrement

}

}

}