**ASSIGNMENT**

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**1a.)**Calendar gc = new GregorianCalendar();

gc.set(Calendar.MONTH, month);

gc.set(Calendar.DAY\_OF\_MONTH, 1);

Date monthStart = gc.getTime();

gc.add(Calendar.MONTH, 1);

gc.add(Calendar.DAY\_OF\_MONTH, -1);

Date monthEnd = gc.getTime();

SimpleDateFormat format = new SimpleDateFormat("yyyyMMdd");

System.out.println("Calculated month start date : " + format.format(monthStart));

System.out.println("Calculated month end date : " + format.format(monthEnd));

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**2a**.) class Checknumber{

int [] numbers = new int [5];

Scanner inn = new Scanner(System.in);

boolean b = true;

int temp = -1;

void sjekk(){

System.out.println("Write five numbers");

for(int i = 0; i < numbers.length; i++){

numbers [i] = inn.nextInt();

}

//sjekker om det er like tall i arrayen

System.out.print("\nNumbers that are repeated: ");

for(int i = 0; i < numbers.length; i++){

if(!b){

System.out.print(temp + " ");

}

b = true;

temp = numbers[i];

for(int j = 0; j < numbers.length; j++){

if(i != j && temp == numbers[j] && numbers[j] != -2){

b = false;

numbers[j] = -2;

}

}

}

}

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**3a.)**public static int[] merge(int[] a, int[] b) {

int[] answer = new int[a.length + b.length];

int i = 0, j = 0, k = 0;

while (i < a.length && j < b.length)

{

if (a[i] < b[j])

{

answer[k] = a[i];

i++;

}

else

{

answer[k] = b[j];

j++;

}

k++;

}

while (i < a.length)

{

answer[k] = a[i];

i++;

k++;

}

while (j < b.length)

{

answer[k] = b[j];

j++;

k++;

}

return answer;

}

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