## LAB Assignment 09

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section: 17 CSE 110

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## public dass Home Work 1

```
// HWI A and HWI Care using this same method.
public static boolean istrime (int num) &
     int count = 0;
     for (int i=1; i <= num; i++){
          iff numo, i = = 0)}
                 count +=1;
      return (count = = 2);
 1/HW1 B and HW1 C are using this method same.
 public static boolean islerject (int num) ;
      int sum = 0;
     for (int i=1; i(num; i++))
          1/ ( mum % i == 0) }
                 sum += 1;
       return (sum == num);
 11 HN11 C only is using this method.
 public static ent special sum [int num) {
       ist sum = 0;
       for (int i=1; i = num; i++) {
            ( num 1,1 == 0 88 is Prime (i)) &
                    sum + = i
            Telse if (isperpect(i))}
                      sum + = 1;
       return sum;
```

public static void main (String [] wgs);

// Call you HN1 A, or method A

System out println (is Prime (5));

// Call you HN1 B, or method B.

System out println (is Perpect (6));

// call you HN1 C, or method (

System out println (special sum (8));

Home Work 2.

```
HomelVork 2 Confinue.
```

```
Il HW2 C only is using this method.
public static void show Diamond (entrum)}
    for (int i = 1; i = num; i++)}
        show Dots (num-i);
        show palindrome (i);
        Show Dots (num-i);
        System out-print (n ();
    f_{a}(int i = num-1; i > = 1; i--)
         show Dots (num-i);
         show palindrome (i);
         show Dots (num-i);
         System out print (n ();
public static word main (string [Jargs) }
     Il call for method A > HNDA.
     show Dots (3);
    Il Call for method B - HALDB.
    show palindrome (5);
  11 Call you method C - HWDC
   show Diamond (3);
```

Home Work 3

```
public class Home Work 35
    11 HW3 A and HW 3 B are using this same method.
    public static double calcTax (int age, int salary) {
        double tax = 0;
         i/(Cage)=18 of salary >10000 of salary (20000)s
                tax = (7 * salary) /100;
         Yelse if (age )= 18 && salary > 20000) &
                tax = (14 * salary) 100;
         Yelse & tax = 0;
     11 HW 3 B only is using this method
     public static void cale Yearly Tax () {
          int monthly Tax = 0; double total Tax = 0;
          Seanner st = new Scanner (System. in);
          int age = st.nextInt();
         for (int i=1; i(=12; i++))
                monklyTax = st. nextInt();
                1/ (age >= 18 fd monthly Tax > 10000) f
                   System.out. mintln ("Montk"+i+ "tax:"
                   + calcTax (age, monthlyTax));
                   totalTax += calcTax(age, monthlyTax);
```

HomeWork 3 Continue. else f System.out.print(n ("Month" + i + "tax:" + cateTax (age, monthlyTax)); System-out-println ("Total yearly tax:"+ total Tax); public static void main (String () asgs) & Il Call for method A -> HW3A. system. ent. println (calcTax (20, 18000)); ll Call you method B -> HN 3B. calchearly Tax ();

Home Work 4.

public clas Home Work 4 }

public static void one To N (ent nums, intnums); if (num1 <= numa) } System -out print (num1); one ToN (num1+1, numa); public static void main (string t) mgs) } S canner of = new Scanner (System.in); int N = st-nextInt(); one TON (1, N);