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Subject Modern Programming Language

Semester BSCS 7A

Assignment No 02

```
// in a five-digit integer and determines whether it's a palindrome. If the number is
import java.util.Scanner;
   private int num;
   private int check =0;
   private int temp,rem;
   public void setNum(int num)
    while(String.valueOf(num).length()<5)</pre>
        System.out.println("Try again , Please Enter a number 5 digits long: ");
        Scanner input = new Scanner(System.in);
        num = input.nextInt();
        this.num = num;
   public void checkNum()
 temp = num;
 while(num>0){
  rem=num%10;
   check=(check*10)+rem;
   num=num/10;
  num =temp;
  if(num == check)
    System.out.println("Number is Palindrome");
    System.out.println("Number is not a Palindrome ");
    public static void main(String args[])
        Scanner sc = new Scanner(System.in);
        System.out.print("Please Enter a 5 digit long number: ");
        a = sc.nextInt();
        Palindromes pd = new Palindromes();
        pd.setNum(a);
        pd.checkNum();
```

```
PS D:\University\Java\Assignment02> javac .\Palindromes.java
PS D:\University\Java\Assignment02> java Palindromes
Please Enter a 5 digit long number: 12345
12345
PS D:\University\Java\Assignment02> javac .\Palindromes.java
PS D:\University\Java\Assignment02> java Palindromes
Please Enter a 5 digit long number: 6784
Try again , Please Enter a number 5 digits long:
12345
Number is not a Palindrome
PS D:\University\Java\Assignment02> java Palindromes
Please Enter a 5 digit long number: 11111
Number is Palindrome
PS D:\University\Java\Assignment02> [
```

```
import java.util.Scanner;
    private int hours=0, rate=0, salary=0, temp=0;
    public void setHours(int hours)
         if(hours>0)
             this.hours = hours;
    public void setRate(int rate)
         if(rate>0)
            this.rate = rate;
    public void calculateSalarv()
         if(hours<=40)
             salary = rate * hours;
             temp = rate * 40;
             hours -=40;
             salary = temp + (hours * rate);
         System.out.println("Your salary is " + salary );
    public static void main(String args[])
         int rate[] = new int[3];
         int hour[] = new int[3];
        SalaryCalculator sc1 = new SalaryCalculator();
SalaryCalculator sc2 = new SalaryCalculator();
SalaryCalculator sc3 = new SalaryCalculator();
         Scanner input = new Scanner(System.in);
         System.out.print("Please Enter Employee hourly rate: ");
         sc1.setRate(input.nextInt());
         System.out.print("Please Enter Hours Employee worked : ");
         sc1.setHours(input.nextInt());
         sc1.calculateSalary();
        System.out.print("Please Enter Employee hourly rate: ");
         sc2.setRate(input.nextInt());
         System.out.print("Please Enter Hours Employee worked : ");
         sc2.setHours(input.nextInt());
         sc2.calculateSalary();
         System.out.print("Please Enter Employee hourly rate: ");
         sc3.setRate(input.nextInt());
         System.out.print("Please Enter Hours Employee worked : ");
         sc3.setHours(input.nextInt());
         sc3.calculateSalary();
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** JUPYTER

PS D:\University\Java\Assignment02> javac .\SalaryCalculator.java

PS D:\University\Java\Assignment02> java SalaryCalculator

Please Enter Employee hourly rate: 9
Please Enter Hours Employee worked: 12

Your salary is 108

Please Enter Employee hourly rate: 10 Please Enter Hours Employee worked : 10

Your salary is 100

Please Enter Employee hourly rate: 10
Please Enter Hours Employee worked : 100

Your salary is 1000

PS D:\University\Java\Assignment02>

```
// a new string where the specified character(s) are replaced. The synntax of the
   // Now make a java program and use the replace function. Take a string "Waheed"
   // and replace the characters "W and D" with "N"
   public class Search
        String word;
        public Search( String word)
            this.word= word.toUpperCase();
       public String replace(char searchChar, char newChar)
           word = word.replace(searchChar,newChar);
           System.out.println(searchChar + " is replaced with " + newChar);
           System.out.print("New String is: ");
           return word;
       public static void main(String args[])
           Search s = new Search("Waheed");
           System.out.println(s.replace('W','N'));
           System.out.println(s.replace('D','N'));
```

```
PS E:\University\Java\Assignment02> java Search
W is replaced with N
New String is: NAHEED
D is replaced with N
New String is: NAHEEN
PS E:\University\Java\Assignment02> [
```