**Assignment – 2**

**(Data types, Variables and Assignment)**

Q1. The basic salary of an employee is 12000. WAP in JAVA to compute gross and net salary of that employee where HRA=15%, and DA=110%, PF=12%.

**CODE**

class Q1

{

public static void main(String args[])

{

double sal = 12000;

double hra = sal \* 0.15;

double da = sal \* 1.10;

double pf = sal \* 0.12;

double gross = sal + hra + da;

double net = gross - pf;

System.out.println("Gross Salary is " + gross);

System.out.println("Net Salary is " + net);

}

}

**OUTPUT**

**To Compile : javac Q1.java**

**To Run : java Q1**

**Output : Gross Salary is 27000.0**

**Net Salary is 25560.0**

Q2. WAP in Java to define variables to store your name, current age, previous age and next age. Perform following operations:

a) To set your name and current age.

b) That can calculate and set your new age after the years that is equal to last digit of your current age.

c) That can calculate and set your new age before the years that is equal to first digit of your current age.

d) To show your name along with current, previous and next age.

**CODE**

class Q2

{

public static void main(String args[])

{

String name="Neogi";

int age = 21;

int nextage = age + (age % 10);

int prevage = age - (age % 10);

System.out.println("My Name= " +name);

System.out.println("My Age= " +age);

System.out.println("Next Age=" +nextage);

System.out.println("Previous Age=" +prevage);

}

}

**OUTPUT**

**To Compile : javac Q2.java**

**To Run : java Q2**

**Output : My Name= Neogi**

**My Age= 21**

**Next Age=22**

**Previous Age=20**

Q3. WAP to define variables for all the shapes given below. Define separate operations for different figures.

a) set required data, b) calculate area of a shape and c) display the details of that shape.

The geometric shapes are- a) circle, b) triangle, c) rectangle.

**CODE**

class Q3

{

public static void main(String args[])

{

double pi = 3.141;

int r = 10;

double aoc = pi\*r\*r;

System.out.println("Radius of Circle is " + r);

System.out.println("Area of Circle is " + aoc);

int base = 20;

int height = 30;

double aot = base\*height/2;

System.out.println("Base of Triangle is " + base);

System.out.println("Height of Triangle is " + height);

System.out.println("Area of triangle is " + aot);

int l = 40;

int b = 30;

double aor = l \* b;

System.out.println("length of Rectangle is " + l);

System.out.println("bredth of Rectangle is " + b);

System.out.println("area of triangle is " + aor);

}

}

**OUTPUT**

**To Compile : javac Q3.java**

**To Run : java Q3**

**Output :** **Radius of Circle is 10**

**Area of Circle is 314.1**

**Base of Triangle is 20**

**Height of Triangle is 30**

**Area of triangle is 300.0**

**length of Rectangle is 40**

**bredth of Rectangle is 30**

**area of triangle is 1200.0**