ITS1010 - Programming Fundamentals – Assignment 04

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1.
```
import java.util.Scanner;
        class demo12{
            public static void main(String[]args){
                Scanner scan  =new Scanner(System.in);
                    System.out.print("input first number   :  ");
                int num1=scan.nextInt();
                    System.out.print("input second number   :  ");
                int num2=scan.nextInt();
              if(num1>num2){
                int totel=num1+num2;
                    System.out.println("totel is  "+totel);
         }else {
                        System.out.println("numbers are   :   "+num1  +num2);
                  }
      }
}
```

2.
```
import java.util.*;
       class demo12
{
        public static void main(String[]args){

                Scanner scan=new Scanner(System.in);

                System.out.print("input number     :  ");
                     int nu =scan.nextInt();

        if(nu>=0) {
                        System.out.println(" number is   "+nu);
                        }
         else
                {
                        nu = -1 *nu;
                System.out.println(" number is   "+nu);
                }

 }
 }
```

3.
```
import java.util.Scanner;
        class demo12{
           public static void main(String[]args){
              Scanner scan  =new Scanner(System.in);

                  System.out.print("input Chemistry marks      :  ");
              double su1=scan.nextDouble();
                   System.out.print("input Physics  marks       :  ");
              double su2=scan.nextDouble();
                   System.out.print("input Combined maths marks :  ");
              double su3=scan.nextDouble();

              double total=su1 +su2 +su3;
                   System.out.println("total is  "+total);
              double avg= total/3;
                   System.out.println("average is  "+avg);

       if(avg>75){
          System.out.println("pass");
      }else {
         System.out.println("fail");
          }
       }
}
```

4.
```
import java.util.*;
      class demo12{
           public static void main(String[]args){
                Scanner scan=new Scanner(System.in);


                System.out.print("Enter unit price     :  ");
        double uPrice =scan.nextDouble();


                System.out.print("quantity     :  ");
        double quantity =scan.nextDouble();


         double total =uPrice * quantity;
                  System.out.println("amount is      :  "+total);


       if(total>1500){
```

```
                System.out.println("You are entitled for the super draw");
              }    else   {
                System.out.println("try again");
            }
          }
        }
```

5.
```
import java.util.*;
      class demo12{
          public static void main(String[]args){
              Scanner scan=new Scanner(System.in);

              System.out.print("Enter unit price     :  ");
         double uPrice =scan.nextDouble();

             System.out.print("quantity     :  ");
       double quantity =scan.nextDouble();

       double total =uPrice * quantity;
             System.out.println("amount is      :  "+total);

      if(total>500){
       double discount=total*5/100;
       total = total-discount;
             System.out.println("give 5% discount   :"+total);
          }
      else
      {
      System.out.println("No discount given");

          }
       }
  }
```

```
6. import java.util.*;
       class demo12{
          public static void main(String[]args){
                Scanner scan=new Scanner(System.in);

                System.out.print("input year     :  ");
        int year =scan.nextInt();
                year= year % 4;
         if(year==0){
                System.out.println("leap year");
           }
   }
}
```

```
7. import java.util.*;
class demo12{
        public static void main(String[]args){
                Scanner scan=new Scanner(System.in);

                System.out.print("input radius    :  ");
                double radius =scan.nextDouble();

                double area =(22.0/7.0) * (radius* radius);
                System.out.println("area is  "+area);
}
}
```

```
8. import java.util.*;
      class demo12{
        public static void main(String[]args){
                Scanner scan=new Scanner(System.in);

                System.out.print("input number 01    :  ");
                int nu1 =scan.nextInt();
```

```
            System.out.print("input number 02    :  ");
            int nu2 =scan.nextInt();

            System.out.print("input number 03    :  ");
            int nu3 =scan.nextInt();

            if(nu1>nu2 |nu1>nu3){
                  System.out.println("maximum number is   :"+nu1);

            }else if(nu2>nu3){

            System.out.println("maximum number is   :"+nu2);}

            else{System.out.println("maximum number is   :"+nu3);}
}
}
```

```
9. import java.util.*;
       class demo12{
       public static void main(String[]args){
            Scanner scan=new Scanner(System.in);
            System.out.print("input number     :  ");
             int nu =scan.nextInt();
             nu = nu % 2;

          if(nu == 0)
            {
                  System.out.println(" number is even  ");}
            else {
            System.out.println(" number is  odd ");}
}
 }
```

---

10. c.if(x==10){}
    e. if((x=100)!=10){}
    f. if((x=100)>0==true){}

---

11. A. if(b){}
    B. if(b=false){}
    C. if(b==false){}
    D. if(b=false==false){}
    E. if((b=false)==false){}
    F. if(b=(false==true)){}

---

12. A. 9
    B. true
    C. error
    D. false
    E. true

13.A. true
    B. true
    C. true
    D. false
    E. true
    F. false
    G. true

---

14. ++x==x :100
    x==x++8 :100

---

15. //Line 1   2351.521.231ctrue
    //Line 2   101001251.521.231ctrue
    //Line 3   356.731true
    //Line 4   error
    //Line 5   error

16.//Line 1 true
//Line 2 false
//Line 3 true
//Line 4 false
//Line 5 true
//Line 6 false
//Line 7 false

---

17. /Line 1 10
//Line 2 true
//Line 3 error
//Line 4 true
//Line 5 true
//Line 6 false

---

18. A. 1 2 3
B. 2 3
C. 3
D. 4 1 2 3
E. 4 1 2 3
F. 4 1 2 3

---

19. D. Prints 0 0

20.A. Line 1
B. Line 2
C. Line 3
D. Line 4
E. Line 5
F. Line 6
H. Line 8

---

21. A. 1
    B. 2 3 1
    C. 3 1
    D. Wrong
    E. Wrong
    F. Wrong

---

22. B. a=0;
    E. if(true){a=0;}
    G. if(y>0){a=0;}else {a=-1;}
    H. a=z>0?0:-1;

---

23. D. Compiler Error: variable d might not have been
    Initialized.

---

24. B. int x=65;
    C. int x=65536;
    D. byte x=65;
    E. short x=66 ;

---

25. Line 1 37
    Line 2 error
    Line 3 error
    Line 4 -13.34999999999999
    Line 5 error
    Line 6 5.625
    Line 7 15.0
    Line 8 6
    Line 9 -10.000000000000028
    Line 10 10
    Line 12 -9
    Line 13 4
    Line 14 4
    Line 15 2

---

26. 2 3 4 5 10
    14 12 9 5 24
    5 5 5 5 5

---

27. Line 1 - false
    Line 2 - true
    Line 3 - error
    Line 4 , Line 5 , Line 6 , Line 7 ,Line 8 - true false true true false

---

28. false
    false
    true
    false