Group Assignment 01 Answers

```
Q1).
class Display
{
 public static void main(String[] args)
 {
  System.out.println("\tThe Java programming language follows the \n \t\t\"Object
Oriented\"\n\t\tprogramming paradigm.");
 }
}
Q2.
class CalSumDiff
{
 public static void main(String[] args)
  float a = 2.56f;
  float b = 6.98f;
  float sum = a + b;
  float diff = b - a;
  System.out.println("Value of a: "+a);
  System.out.println("Value of b: "+b);
  System.out.println("Value of sum: "+sum);
  System.out.println("Value of diff: "+diff);
 }
}
```

```
Q3).
class CheckPositiveNegative
 public static void main(String[] args)
  int number = -3;
  if(number>0) //If a number is greater than zero then it is a positive number
  {
   System.out.println(number + " is a positive number");
  }
  else if(number<0) //If a number is less than zero then it is a negative number
  {
   System.out.println(number + " is a negative number");
  }
  else // If a number is equal to zero then it is neither negative nor positive.
  {
   System.out.println(number + " is neither positive or negative");
  }
```

}

}

Method 01

```
class PrimeNumber
{
public static void main(String[] args)
{
  int number = 10;
  int i;
  boolean isPrime = true;
  if(number==1 || number==0)
  {
   System.out.println(number+" is not a prime number");
  }
  else
   for(i=2; i<=number/2; i++)
   {
    if(number%i ==0 )
    {
     System.out.println(number+" is not a prime number");
     isPrime = false;
     break;
    }
   }
   if(isPrime == true)//If isPrime is true then the number is prime
   {
   System.out.println(number+" is a prime number");
   }
```

```
}
}
}
```

Method 02

```
class PrimeNumberCheckAnotherMethod
{
public static void main(String[] args)
{
 int number = 10;
  int i;
  boolean isPrime = true;
  for(i=2; i<=number/2; i++)
   if(number%i ==0 )
    isPrime = false;
   }
  }
//If isPrime is true then the number is prime else not
  if(isPrime)
   System.out.println(number + " is a Prime Number");
  else
   System.out.println(number + " is not a Prime Number");
}
}
```

```
Q5).
class SumOfNumbers
 public static void main(String[] args)
 {
  int i;
  int sum = 0;
  for(i=0; i<1000; i++)
  {
   if(i%5 == 0 | | i%7 == 0)
   {
    sum = sum + i;
   }
  }
  System.out.println("sum of numbers below 1000 that are divisible by 5 or 7 = "+sum);
 }
}
```

```
Q6).
a).
class StarSquarePattern
{
 public static void main(String[] args)
 {
  int i;
  int k;
  int rowNumber = 6;
  int colNumber = 10;
  for(i=1; i<=rowNumber; i++)</pre>
  {
   for(k=1; k<=colNumber; k++)</pre>
    {
     if(i==1 || i==rowNumber || k==1 || k==colNumber)
      System.out.print("*");
     }
     else
      System.out.print(" ");
     }
    }
    System.out.println();
  }
}
}
```

```
b).
class StarTriangularPattern
public static void main(String[] args)
{
  int i;
  int j;
  int rowNumber = 6;
  for(i=1; i<=rowNumber; i++)</pre>
  {
   for(j=1; j<=i; j++)
    System.out.print("*");
   System.out.println();
 }
}
```

}