Problem 1:

Find the greatest of the three numbers

Source code:

```
import java.io.*;
import java.util.Scanner;
        //program to find the greatest of three numbers
public class Assignment1
 {
        static int greatest(int a, int b, int c)
                {
                        if(a>b && a>c)
                                return a;
                        if(b>a && b>c)
                                return b;
                        if(c>a && c>b)
                                return c;
                        if(a>=b && a>=c) //when two/all numbers are same
                                return a;
                        if(b>=c && b>=a)
                                return b;
                        if(c>=a && c>=b)
                                return c;

                        return 1;
                }

        public static void main(String[] args)
         {
                int a, b, c;
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter three numbers");
                a = sc.nextInt();
                b = sc.nextInt();
                c = sc.nextInt();
```

```
            System.out.println("Greatest number is --> "+greatest(a, b,c ));
            sc.close();
        }
}
```

Problem: 2

Check if a number N is palindrome or not

Source code:

```
package assignment1;

import java.util.Scanner;

/*Program to find a n number is palindrome or not*/
public class Number_Palindrome {
        public static void reverse(int number)
                {
                        int rev = 0;
                        int temp = number;
                        while(number>=1)
                                {
                                        rev=rev*10+ (number%10);
                                        number/=10;
                                }
                        System.out.print("Numbe is Palindrome: ");
                        if(temp==rev)
                                { System.out.print("YES");   }
                        else
                                { System.out.print("NO");}
                }

        public static void main(String args[])
                {
                        Scanner sc = new Scanner(System.in);
                        System.out.println("Enter the number to check for palindrome");
                        int number = sc.nextInt();
                        reverse(number);
                }
        }
```

Problem: 3

Check if a Number N is a Prime or not

Source code:

```
package assignment1;
import java.util.Scanner;

public class PrimeNumber {
	public static void main(String args[])
		{
			Scanner sc = new Scanner(System.in);
			System.out.println("Enter a number to check for Prime..");
			int number = sc.nextInt();
			int flag = 0;
			for(int i=2; i<number-1; i++)
				{
					if(number%i==0)
						flag+=1;
				}
			if(flag>=1)
				{System.out.println(number+" is not Prime");}
			else
				{System.out.println(number+" is a prime number");}
		}
}
```

Problem: 4

Find the reverse of a number N

Source code:

```
//Program to find the reverse of a number
package assignment1;
import java.util.Scanner;

public class Reverse {
	public static void reverse(int number)
```

```
		{
			int rev = 0;
			int temp = number;
			while(number>=1)
				{rev=rev*10+(number%10);
				 number/=10;
				 }
			System.out.println("The reverse of "+temp+" is: "+rev);
		}
	public static void main(String args[])
		{
			Scanner sc = new Scanner(System.in);
			System.out.println("Enter a number to find it's reverse !");
			int num = sc.nextInt();
			reverse(num);
			sc.close();
		}
}
```

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