**Assignment 01 : WAP to print a given number in words**

```
import java.util.Scanner;

public class PrintNumberInWords{
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);

System.out.print("Enter a number (0 to 9999) : ");
int num = sc.nextInt();

String[] ones = {"zero", "one", "two", "three", "four", "five", "six", "seven", "eight", "nine"};
String[] teens = {"ten", "eleven", "twelve", "thirteen", "fourteen", "fifteen", "sixteen",
"seventeen", "eighteen", "nineteen"};
String[] tens = {"", "", "twenty", "thirty", "forty", "fifty", "sixty", "seventy", "eighty", "ninety"};

String res = "";
while (num >= 0) {
if (num < 10) {
res += ones[num];
num = -1;
}
else if (num< 20) {
res += teens[num - 10];
num = -1;
}
```

```
else if (num < 100) {
res += tens[num / 10];
if(num%10==0){
num = -1;
}
else{
num = (num%10);
}
}
else if (num< 1000) {
res += ones[num / 100] + " hundred ";
if(num%100==0){
num = -1;
}
else{
num = (num%100);
}
}
else if (num < 10000) {
res += ones[num / 1000] + " thousand ";
if(num%1000==0){
num = -1;
}
else{
num = (num%1000);
}
```

```
}
else {
// Extend this as needed for larger numbers
res += "Number out of range";
num = -1;
}
if (num >= 0) {
res += " ";
}
}
System.out.println(res);
sc.close();
}
}
```

**Assignment 02 : Find LCM and HCF of two numbers**

```
import java.util.Scanner;

public class LCMandHCFofTwoNumbers{
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);

System.out.print("Enter the value of num1 : ");
int num1 = sc.nextInt();

System.out.print("Enter the value of num2 : ");
int num2 = sc.nextInt();

int mi,ma,i = 0;
if(num1<num2){
mi = num1;
ma = num2;
}
else if(num2<num1){
mi = num2;
ma = num1;
}
```

```
else{
mi = num1;
ma = mi;
}
i = ma;
while(true){
if( (i%num1)==0 && (i%num2)==0 ){
System.out.printf("LCM of %d and %d is %d\n",num1,num2,i);
break;
}
i++;
}
i = mi;
while(i>0){
if((num1%i)==0 && (num2%i)==0){
System.out.printf("HCF of %d and %d is %d\n",num1,num2,i);
break;
}
i--;
}
sc.close();
}
}
```

**Assignment 03: WAP to find Power of number using while loop**

```
import java.util.Scanner;

public class PowerOfNumberUsingLoop {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);

System.out.print("Enter the value of base (i.e in a^b, a) : ");
int base = sc.nextInt();

System.out.print("Enter the value of exponent (i.e in a^b, b) : ");
int expo = sc.nextInt();
int i = 1;
long val = 1;
while(i<=expo){
val *= base;
i++;
}
System.out.printf("(%d ^ %d) = %d\n",base,expo,val);
```

```
sc.close();
}
}
```

**Assignment 04 : WAP to check whether the number is prime or not**

```
import java.util.Scanner;

public class PrimeOrNot {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
String res="";

System.out.print("Enter a number : ");
int num = sc.nextInt();

if(num<=1){
res = "is not a prime number!";
}
else if(num<=3){
res = "is a prime number!";
}
else{
int i = 2;
```

```
int cnt = 0;
while(i<num){
if(num%i == 0){
res = "is not a prime number!";
break;
}
else{
cnt++;
}
i++;
}
if(cnt==(num-2)){
res = "is a prime number!";
}
}
System.out.println(num +" "+ res);
sc.close();
}
}
```