

## **CSE 402 Offline #1**

1. Write a predicate **isPrime/1** that will give true if the argument is a prime number and false if the argument is a non-prime number.
2. Write a predicate **factorial/2** that will take a number as the first argument and give the factorial of the number as the second argument.

```
?- factorial(4,R) .
```

```
R = 24
```

3. Write a prolog program to delete every nth element from a list.

```
?-drop([a,b,c,d,e,f,g,h,i,k,l],3,X) .
```

```
X = [a,b,d,e,g,h,k,l]
```

4. Practice list manipulation programs like inserting an element, deleting an element from a list, reversing a list, concatenation of two lists etc.
5. Write a prolog program to implement merge sort.

**Submission Deadline:** 27/9/2016 (Tuesday) before 2:00 AM (For both A2 and B2)

### **Instructions**

A link in the moodle will be created before the deadline. Each student will submit a zipped folder containing all the .pl files. The name of the folder will be the student's roll number.

In case of any plagiarism, the student will get 0 in the offline.

Practice well for the online. Good Luck!!!