## LAB 04 (Selection using If Condition)

A question that sometimes drives me hazy: am I or are the others crazy? Albert Einstein

Lab is based on Lecture 7, however prior concepts also required

**Task 1:** Related to ATM. Randomly generate account balance between 3000 and 20000. If balance is > 10000, show message "Sufficient Balance", otherwise, show message "Sorry! Insufficient Balance" Run program for number of times to get both messages.

```
Task 2: Write program to generate age randomly between 5 to 45 and print messages according to criteria:
```

age < 10 Child 10 <= age <20 Teenage 20 <= age <40 Young >=40 Above Young

**Task 3:** Generate 3 numbers randomly without any range and print them in ascending order?

```
Task 4: Input salary as input and calculate salary using formulas? salary < 200000 \quad tax = 10\% \quad - \quad salary < 300000 \quad tax = 15\% \quad - \quad otherwise \quad tax = 20\%
```

```
Task 5: Complete code written inside main function to show output given on right hand side. Here same data is shown twice, first ordering is done on the basis of salary; whereas; in second ordering is done on the basis of name?

String s1="Ahmad Kamal", s2="Amjad Hussain";

int salary1=30000, 28000;

Note: Use if condition to show output, don't write hard code

Salary wise:

Amjad Hussain 28000

Ahmad Kamal 30000

Amjad Hussain 28000
```

```
В
                                                                                    A and B
                                                                        Α
Task 6: Complete code to print Truth Table as shown using composite if condition:
                                                                       true true
                                                                                       true
boolean a=true, b=true;
                                                                       true false
                                                                                       false
                                                                       false true
                                                                                       false
                                                                       false false
                                                                                       false
a = true, b = false;
                                                                               В
                                                                                    A or B
                                                                       true true
                                                                                       true
                                                                       true false
                                                                                       true
                                                                       false true
                                                                                       true
Note: First complete and table than print or table. Use \t for formatting
                                                                       false false
                                                                                       false
```