#### CSE 114 STRUCTURED PROGRAMMING LANGUAGE LAB

## LAB 3

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# **OBJECTIVE**

• To understand the programming knowledge using Decision Statements (if, if-else, if-else if)



#### PROBLEM STATEMENT

• Write a program to take input of name, rollno and marks obtained by a student in 5 subjects (csell3, csell4, matl01, phyl02, eng202) each have its 100 full marks and display the average marks and letter grade [A+ (marks above or equal 80), A (marks between 60 to 79), B (marks between 50 to 59), C (marks between 40 to 49), D (marks between 33 to 39), F (marks less than 33)]



### INPUT & OUTPUT

Enter Name of Student: Asma Zaman

Roll Number: 10

Enter marks of 5 Subjects:

CSE113:65

CSE114:75

MAT101:56

PHY102: 62.5

ENG202:80

Name of Student: Asma Zaman

Roll Number: 63

Average marks: 67.7

Letter Grade: A



```
#include<stdio.h>
int main(){
    char name[20], grade;
    int roll;
    float sub1, sub2, sub3, sub4, sub5, avg;
                                                      if(avq>=80)
    printf("Enter Name of the Student: ");
    scanf("%[^\n]", name);
    printf ("Roll Number: ");
    scanf("%d", &roll);
    printf ("Enter Marks of 5 Subjects:\n");
    printf("CSE113: ");
    scanf("%f", &sub1);
    printf("CSE114: ");
    scanf("%f", &sub2);
                                                      else
    printf("MAT101: ");
    scanf("%f", &sub3);
    printf("PHY102: ");
                                                      printf("\n")
    scanf("%f", &sub4);
    printf("ENG202: ");
                                                      return 0;
    scanf("%f", &sub
    avg = sub1+sub2+sub3+sub4+sub5;
    avq /= 5;
```

```
printf("\nName of Student: %s", name);
printf("\nRoll Number: %d", roll);
printf ("\nAverage marks: %2.2f", avg);
printf ("\nLetter Grade: ", avg);
    printf("A+");
else if (avg >= 60 \&\& avg <= 79)
    printf("A");
else if (avg >= 50 \&\& avg <= 59)
    printf("B");
else if (avq >= 40 \&\& avq <= 49)
    printf("C");
else if (avg >= 33 \&\& avg <= 39)
    printf("D");
    printf("F");
```

### LAB EXERCISES

- 1. Write a program to check whether an input character is vowel or consonant.
- 2. Write a program to take a number as input and check whether the number is multiple of 3 and divisible by 5 or 7
- 3. Write a program to take a number (two or higher digit integer number) as input and shows it in reverse order.
- 4. Write a program to check whether the entered year is leap year or not (a year is leap if it is divisible by 4 and divisible by 100 or 400.)

