**Programming Fundamentals (BSDSF24)**

**Assignment 02**

**Due Date: 6-Dec-2025 Time 08:30**

1. **Write down the declarations of the following enumerations (list of values).**
2. *Top five national languages of Pakistan*
3. *Arrows keys on a typical keyboard*
4. *Common fast food items available at PUCIT NC*
5. *Daily prayer’s (Salah) names*
6. *Current BS batches ( F17, etc )at PUCIT*
7. **Write down the declarations of the following functions.**
8. *To return the volume of a cube of supplied length*
9. *To return a random real value between -100 and 100*
10. *To return the average from an array of positive integers*
11. *To return the hours elapsed since midnight from a time value received as parameter*
12. *To return range of CGPA from an array of Students*
13. **Write down the declarations of the following structures.**
14. Rational number, *with numerator and denominator parts*
15. White board, *of certain height and width having good and poor quality*
16. Room*, composed of category, no of beds, attachment of bath room, availability of TV, date of reservation, and days of reservation*
17. Student, *with mobile number, name, address, degree, section*
18. Assignment, *like that in your hand*
19. **Code and functions.**
20. Write a program to output first 5 letters of your first name reverse order, one per line. If your first name hasn’t sufficient characters, do the same with my name.
21. Write a program to input 4 number and then line by line output them in order (smallest first and largest last).
22. Write a function to output space separated factors of the number passed as its arguments.

void showFactors(int num)

1. Write code of a functions using loop that returns square root of a prefect square (integer).

int squareRoot(int num)

1. Write a program to print numbers between m and n which are divisible by k, where m, n and k are variables having integer values with m < n.