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| **Don Bosco Institute of Technology Department of Basic Science and Humanities**  **2021-2022**  **C programming Lab** | | | |
| Division/ Roll number/ Batch | B/24/Batch B | Name of Student | Roshan Kainee |
| Date of Performance | 13/04/2022 | Date of Submission | 28/04/2022 |
| **Experiment No. 2** | | | |
| Title | Basic Data Type and Input Output Statements. | | |
| Learning Outcomes | Understanding various data type.  Calculating average. | | |
| Theory | The double is a fundamental data type which is used to define numeric variables  holding numbers with decimal points. It is specified by %lf. Its size is 8 bytes. | | |
| Problem Definition | User wants to calculate average of his marks obtained in 5 subjects. | | |
| Algorithm | 1. START 2. INPUT MARKS OF FIVE SUBJECTS 3. CALCULATE AVERAGE OF MARKS OF FIVE SUBJECTS 4. DISPLAY AVERAGE MARKS 5. STOP | | |



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| Flowchart |  |
| Code | #include<stdio.h> int main(void)  {  int s1, s2, s3, s4, s5; float avg;  printf("Enter marks of subject 1: "); scanf("%d" ,&s1);  printf("Enter marks of subject 2: "); scanf("%d" ,&s2);  printf("Enter marks of subject 3: "); scanf("%d" ,&s3);  printf("Enter marks of subject 4: "); scanf("%d" ,&s4);  printf("Enter marks of subject 5: "); scanf("%d" ,&s5);  avg = (s1 + s2 + s3 + s4 + s5)/5; printf("The average marks are: %f",avg); return 0;  } |

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| Output | Enter marks of subject 1: 80  Enter marks of subject 2: 93  Enter marks of subject 3: 85  Enter marks of subject 4: 95  Enter marks of subject 5: 98  The average marks are: 90.000000 |
| Conclusion | User is able to calculate and display his /her average of marks. |