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| **Unit – 1 Introduction to programming in C** | | |
| **Day – 4** | | |
| **Lec #** | **Topics to be covered** | **Assignment** |
| 1 | Program statements, declarations, How the computer stores data in memory, Operators and Expressions | **Essential Assignment**   1. Write a C program to find maximum of three numbers using ternary operator. 2. What will the output of following programs and write the reason in comment. #include<stdio.h>   #include<conio.h> void main()  {  int x,a,b,c; a=2;  b=4; c=5;  x = a-- + b++ - ++c;  printf(“x:%d”,x); getch();  }   1. Take the two input from the user and perform encryption and decryption using XOR operation in C program. 2. Write a C Program to find the Size of int, float, double and char datatype. |
| 5. Write a C program to read a price of an item in (float) like 10.25 and print output |
|  | in (int) paisa like1025.(An example of implicit conversion) |
|  |  | 6. Evaluate the following expression(c=a/b, where a and b is integer variable and c is float variable) and result is converted into float using explicit type casting. |

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|  |  | **Desirable Assignment**   1. Write a C program to read the age from the user and check whether he/she is eligible for vote using ternary operator. 2. Write a C program to take the value from user and check the number is odd or even. (if-else) 3. What will the output of following programs and write the reason in comment   #include<stdio.h> #include<conio.h> void main()  {  int a,b,c; a=11; b=22;  c = a + b + a++ + b++ + ++a + ++b; printf(“a:%d”,a);  printf(“b:%d”,b);  printf(“c:%d”,c); getch();  }   1. Write a C Program to Find if a given Year is a Leap Year or not. 2. Write a C program to swap the two number using XOR Operation 3. Write a C program to take the values from user and evaluate the following expression: x = a + b % c / d % e \* f – g; 4. Evaluate the following expression: x = a \* (b % c ) / d; ( for eg. x = 7 \* (6 % 15)/9) 5. Write a C program take the pin code from the user and convert in to ascending order using ternary operator(E.g. Input = 382174,Output = 123478) |