C Language Community LIVE Classes Assignment-6

```
1. Write a program to print size of an int, a float, a char and a double type variable
Ans.
       #include<stdio.h>
       #include<conio.h>
       Int main ()
       Int inttype;
       float float type;
       char chartype;
       double doubletype;
               // sizeof evaluates the size of a variable
          printf("Size of int: %zu bytes\n", sizeof(intType));
          printf("Size of float: %zu bytes\n", sizeof(floatType));
          printf("Size of double: %zu bytes\n", sizeof(doubleType));
          printf("Size of char: %zu byte\n", sizeof(charType));
       gtech();
    2. Write a program to find last digit of a given number
Ans.
        #include <stdio.h>
       int main()
{
  int n, sum=0, lastDigit;
  printf("Enter number = ");
  scanf("%d", &n);
  // Find last digit of a number
  lastDigit = n % 10;
  printf(" last digit = %d\n",lastDigit);
  return 0;
}
    3. Write a program to find first digit of a given three digit number
Ans.
       #include <stdio.h>
       int main()
  int n, sum=0, firstDigit, ;
  printf("Enter number = ");
  scanf("%d", &n);
```

```
//Find the first digit by dividing n by 10 until n greater then 10
while(n >= 10)
{
    n = n / 10;
}
firstDigit = n;
printf("first digit = %d\n", firstDigit);
return 0;
}
```

- 4. Write a program to find middle digit of a given three digit number Ans.
 - 5. Write a program to swap values of two int variables

6. Write a program to swap values of two int variables without using third variable Ans. #include<stdio.h>

```
int main()
{
int a=10, b=20;
printf("Before swap a=%d b=%d",a,b);
a=a+b;//a=30 (10+20)
b=a-b;//b=10 (30-20)
a=a-b;//a=20 (30-10)
printf("\nAfter swap a=%d b=%d",a,b);
return 0;
}
```

7. Write a program to make the last digit of a number stored in a variable as zero. (Example - if x=2345 then make it x=2340)

Ans.

8. Write a program to input a number from the user and also input a digit. Append a digit in the number and print the resulting number. (Example - number=234 and digit=9 then the resulting number is 2349)

9. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and convert it into USD.

```
Ans. #include <stdio.h>
int main(void) {
        float rupees;

        printf("Please enter rupees:");
        scanf("%f", &rupees);

        float dollars = rupees / 76.23;

        printf("%f Dollars", dollars);
}

10. Write a program to take a three digit number from the user and rotate its digits by one position towards the right.
Ans.
```