Assignment-2

Operators in C language

```c
#include <stdio.h>

int main() {
    // Write C code here

    int x = 52;
    int temp;
    temp = x%10;

    printf("%d",temp);

    return 0;
}
```

Que-2) Write a program to print a given number without its last digit.

```c
#include <stdio.h>

int main() {
    // Write C code here

    int x ;
    int result;

    printf("enter a number:");
    scanf("%d",&x);
    result = x/10;
    printf("the result is %d",result);

    return 0;
}
```

Que -3) Write a program to swap values of two int variables

```c
#include <stdio.h>

int main() {
    // Write C code here

    int  a,b;
    printf("enetr two numbers");
    scanf("%d%d",&a,&b);

    int temp;       //declare a variable third

    //swap nthe numbers
    temp = a;
    a = b;
    b = temp;

    printf("swapped numbers are : a= %d and b =%d",a,b  );

    return 0;
}
```

Que -4) Write a program to swap values of two int variables without using a third variable.

```c
#include<stdio.h>

int main(){
    int a,b;

    printf("enter two numbers");
    scanf("%d%d",&a,&b);
     //swap  variables
     a = a+b;
     b = a-b;
     a=a-b;
    printf("ans is a = %d  and  b  = %d",a,b);
    return 0;
}
```

Que -5) Write a program to input a three-digit number and display the sum of the digits.

```c
#include<stdio.h>

int main(){
```

```
    int a;
    int sum =0;
    printf("enter number ");
    scanf("%d",&a);
    while(a!=0){

        int lastdigit = a%10;
        sum = sum + lastdigit;
        a= a/10;
    }

    printf(" sum is %d",sum);
    return 0;
}
```

Que – 6) Write a program which takes a character as an input and displays its ASCII code.

```
#include<stdio.h>

int main(){
    char a;
    printf("enter number ");
    scanf("%c",&a);




    printf(" ascii is %d",a);
    return 0;
}
```

Que-7) . Write a program to find the position of first 1 in LSB.

```
#include <stdio.h>

int main()
{
    int num;

    /* Input number from user */
    printf("Enter any number: ");
    scanf("%d", &num);

    /* If (num & 1) evaluates to 1 */
    if(num & 1)
        printf("LSB of %d is  (1).", num);
    else
```

```
        printf("LSB of %d is  (0).", num);
    return 0;
}
```

```
#include <stdio.h>

int main()
{
    int x;

    printf("enter the number");
    scanf("%d",&x);

    if(x&1 ==1){
        printf("number  is odd\n");
    }
    else{
        printf("number is even\n");
    }
    return 0;

}
```

```
#include <stdio.h>
int main()
{
    int x;
   int k;
    printf("enter the number");
    scanf("%d",&x);
    x = sizeof(k);
    printf("type size is %d ",x) ;
    return 0;
}
```

```
#include <stdio.h>
int main()
{
    int x;
   char k;
    printf("enter the number");
    scanf("%d",&x);
    x = sizeof(k);
```

```
    printf("type size is %d ",x) ;
    return 0;
}
```

```
#include <stdio.h>
int main()
{
    int x;
    float k;
    printf("enter the number");
    scanf("%d",&x);
    x = sizeof(k);
    printf("type size is %d ",x) ;
    return 0;
}
```

```
#include <stdio.h>
int main()
{
    int x;
    double k;
    printf("enter the number");
    scanf("%d",&x);
    x = sizeof(k);
    printf("type size is %d ",x) ;
    return 0;
}
```

Que -10) 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)

```
int main()
{
    int num;

    /* Input number from user */
    printf("Enter any number: ");
    scanf("%d", &num);



        int rem = num%10;
        rem =0 ;
```

```
        num=num/10;
        rem = 0;
        num = num*10+rem;


    printf("number is %d" ,num);
    return 0;
}
```

```c
#include <stdio.h>
#include <string.h>

int main()
{
    char num[20] ,digit[20];
    char result[20];

    /* Input number from user */
    printf("Enter any number  ");
    scanf("%s", num);
    printf("Enter any n digit:" );
     scanf("%s", digit);

        strcat(num,digit);




    printf("the result of append is %s:",num);
    return 0;

}
```

Que 12. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and convert it into USD.

```c
#include <stdio.h>
#include <string.h>

int main()
{
```

```c
    int amount ;
    float usd;


    /* Input number from user */
    printf("Enter any amount ");
    scanf("%d", &amount);

    //convertiing the INR into usd

  usd = (amount*76.23);

    printf("the result of append is %f usd:",usd);
    return 0;
}
```

Que - 13. Write a program to take a three-digit number from the user and rotate its digits by one position towards the right.

```c
#include<stdio.h>
 int main(){

    char num[20];
    printf("enter the number : ");
    scanf(" %s",num);

    char temp  = num[1];
    num[1] = num[0];
    num[0] = temp;
    char temp2 = num[1];
    num[1] = num[2];
    num[2] = temp2;

    printf("%s" , num);
    return 0;
 }
```