Assignment 2

Qn :-1
Write a program to print unit digit of a given number.

include <stdio.h>

```c
int main() {
    // DEEP SOLVED
    int a,unit_digit;
    printf("Enter no.");
    scanf("%d",&a);
    unit_digit=a%10;
    printf("%d is unit_dgt",unit_digit);

    return 0;
}
```

Qn.2
Write a program to print a given number without its last digit.

#include<stdio.h>

```c
int main(){
    int n, num ;
    printf("\nEnter number--> ");
    scanf("%d",&n);
    num = n/10;
    printf("\nnumber without its last digit is  %d",num);
    return 0;

}
```

Qn:-3
Write a program to swap values of two int variables.

```c
int main() {
    // DEEP SOLVED
    int a,b,temp;
    printf("Enter value of a and b\n");
    scanf("%d %d",&a,&b);
    temp=a;
    a=b;
    b=temp;
```

```c
    printf("swapped value is %d %d",a,b);

    return 0;
}
```

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

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

int main(){
    int n, digit, sum=0;
    printf("\nEnter 3-digit number--> ");
    scanf("%d",&n);

    while(n>0)
    {
        digit = n%10;
        sum = sum +digit;
        n/=10;

    }
    printf("\nthe sum of the digits %d",sum);
    return 0;
}
```
6. Write a program which takes a character as an input and displays its ASCII code.

```c
#include<stdio.h>

int main()
{
    char ch;
    printf("\nEnter the character -->");
    scanf("%c", &ch);
    printf("\n ASCII code of ` %c ` is %d",ch, ch);
    return 0;
}
```

Qn.7
Write a program to find the position of first 1 in LSB.

```c
#include<stdio.h>

int main ()
```

```c
{
    int n, pos=1;
    printf("\nEnter the number--> ");
    scanf("%d",&n);

    while (n>0)
    {
    if( n%2 == 0)
     pos = pos +1;
     n/=2;
    }

    printf("\nfirst 1 at %dth pos", pos);
}
```

8. Write a program to check whether the given number is even or odd using a bitwise operator.

```c
#include<stdio.h>

int main()
{
    int num;
    printf("\nEnter the number -->");
    scanf("%d",&num);

    if( num%2 == 1)
      printf("\n %d is an odd number",num);
    else
     printf("\n %d is an even number",num);

    return 0;
}
```

Qn.:-9
Write a program to print size of an int, a float, a char and a double type variable.

```c
include <stdio.h>

int main() {
    //Deep solved

    int a;
    float b;
    char c;
    double d;
    printf("int_size is:%d\n",sizeof(a));
```

```c
printf("float_size is:%d\n",sizeof(b));
printf("char_size is:%d\n",sizeof(c));
printf("double_size is:%d\n",sizeof(d));

    return 0;
}
```
Or
```c
// Write a program to print size of an int, a float, a char and a double type variable

#include<stdio.h>

int main()
{
    printf("\nSize of int is %d",sizeof(int));
    printf("\nSize of float is %d",sizeof(float));
    printf("\nSize of char is %d",sizeof(char));
    printf("\nSize of double is %d",sizeof(double));
    return 0;
}
```
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)

```c
#include<stdio.h>

int main()
{
    int num1, num2;

    printf("\nEnter the number-->");
    scanf("%d",&num1);
    num2 = num1/10;
    num2*=10;
    printf("\nNumber with last digit to zero is %d",num2);
}
```
Qn:-11 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)

```c
#include<stdio.h>

int main()
{
    int num1, digit;
```

```c
    printf("\nEnter the number and digit-->");
    scanf("%d%d",&num1,&digit);
    num1*=10;
    num1+=digit;
    printf("\nAfter appending digit, the number is  %d",num1);
}
```

Qn.:-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>
int main() {

// Deep solved
int INR:
float dollar;

printf("Enter INR value\n");
scanf("%d",&INR);

dollar= INR/76.23;
printf("dollar value is "dollar);
return 0;
```

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()
{
    int num, digit;
    printf("\nEnter 3-digit number--> ");
    scanf("%d",&num);

    digit = num%10;
    num/=10;
    num = digit*100+num;
    printf("\nAfter Rotated right by 1 positon, the number is %d ",num);

}
```