iNeuron

Submitted To: **Sir Saurabh Shukla**

Submitted By: **Musharaf Ali**

Course Name: **Job Ready Bootcamp in C++, DSA and IOT**

Assignment No: **2**

Date: **22-7-2022**

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

Program

```
#include<stdio.h>
int main()
{
        int n;
        printf("enter a number:");
        scanf("%d",&n);
        printf("%d Unit digit is %d",n,n%10);
        return 0;
}
```

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

Program

```
#include<stdio.h>
int main()
{
        int n;
        printf("enter a number:");
        scanf("%d",&n);
        printf("Given number %d without last digit %d",n,n/10);
        return 0;
}
```

3. WAP to swap values of two int variables.

Program

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

```
    int x=45;
    int y=35,z;
    printf("Without swap values x=%d y=%d",x,y);

    z=x;

    x=y;
    y=z;
    printf("\nSwap values is x=%d y=%d",x,y);
    return 0;
}
```

4. WAP to swap values of two int variables without using a third variable.

Program

```
#include<stdio.h>
int main()
{
    int x;
    int y;
    printf("Enter two values:");
    scanf("%d %d",&x,&y);
    printf("Without swap values x=%d y=%d",x,y);
    x=x+y;
    y=x-y;
    x=x-y;
    printf("\nSwap values x=%d and y=%d",x,y);
    return 0;
}
```

5. WAP to input a three-digit number and display the sum of the digits.

Program

```
#include<stdio.h>
int main()
{
        int w,x,y,z;
        printf("Enter three digit number:");
        scanf("%d",&w);
        x=w%10;
        y=w/100;

        z=(w/10)%10;
        printf("Sum of three digits %d is:%d",w,x+y+z);
        return 0;
}
```

6. WAP which takes a character as an input and dispiays its ASCII code.

Program

```
#include<stdio.h>
int main()
{
        int x;
        printf("Enter a character:");
        scanf("%c",&x);
        printf("Character %c ASCII code is %d",x,x);
        return 0;
}
```

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

Program

```
#include<stdio.h>
int main()
{
    int n,count=0,result,x;
    printf("Enter a number:");
    scanf("%d",&n);
    count++;
    result=n&1;
    if(result==1)
        printf("First one position is:%d",count);
    else
    {
        count++;
        x=n>>1;
        result=x&1;
        if(result==1)
            printf("First one position is:%d",count);
    }
    return 0;
}
```

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

Program

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


{
```

```
    int n,x;
    printf("Enter a number:");
    scanf("%d",&n);
    x=n&1;
    if(x==1)
    printf("%d is odd number",n);
    else
    printf("%d is even number",n);
    return 0;
}
```

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

Program

```
#include<stdio.h>
int main()
{
    int w,x,y,z;
    w=sizeof(int);
    x=sizeof(float);
    y=sizeof(char);
    z=sizeof(double);
    printf("size of int %d and float %d and char %d and double
    %d",w,x,y,z);
    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)

Program

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

```
    int x,y;
    printf("enter a value:");
    scanf("%d",&x);
    y=x%10;
    x=x-y;
    printf("x=%d",x);
    return 0;
}
```

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)**

Program

```
#include<stdio.h>
int main()
{
    int nbr,digit,x,y;
    printf("Enter number and digit:");
    scanf("%d%d",&nbr,&digit);
    x=nbr*10;
    y=x+digit;
    printf("Append number is %d",y);
    return 0;
}
```

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

Program

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

{
```

```
    int INR,USD;
    printf("enter INR:");
    scanf("%d",&INR);
    USD=INR/76.23;
    printf("USD=%d",USD);
    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.

Program

```
#include<stdio.h>
int main()
{
    int n,x,y,z;
    printf("Enter three digit number:");
    scanf("%d",&n);
    x=n/10;
    y=n%10;
    z=y*100+x;
    printf("Rotate digits is %d",z);
    return 0;
}
```