

## ASSIGNMENT-II 2

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

```
#include <stdio.h>
int main ()
{
    int num, S;
    printf("Enter the number");
    scanf("%d", &num);
    S = num % 10;
    printf("Unit digit is %d", S);
    return 0;
}
```

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

```
#include <stdio.h>
int main ()
{
    int num, S;
    printf("Enter the number:");
    scanf("%d", &num);
    S = num / 10;
    printf("Number without last digit is %d", S);
    return 0;
}
```

3. Write a program to swap value of two int variables.

```
#include <stdio.h>
int main ()
{
    int a = 10, b = 20;
    printf("Before swap: a = %d, b = %d", a, b);
    // a = 20, b = 10
    return 0;
}
```

```

int a, b, temp;
printf("Enter Two numbers: ");
scanf("%d %d", &a, &b);
temp = a;
a = b;
b = temp;
printf("%d %d", a, b);
return 0;
}

```

4. Write a program to swap the value of two int variables without using third variable.

```

#include <stdio.h>

```

```

int main()
{
    int a, b;
    printf("Enter two numbers");
    scanf("%d %d", &a, &b);
    a = a + b;
    b = a - b;
    a = a - b;
    printf("%d %d", a, b);
    return 0;
}

```

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

```

#include <stdio.h>

```

```

int main()
{

```

```

    int x; Sum = 0;

```

```

    printf("Enter three digit number");

```

```

    scanf("%d", &x);

```

```

    while (x != 0)

```



```

{
    int y = x % 10;
    sum = sum + y;
    x = x / 10;
    printf("Sum of digits: %d", sum);
    return 0;
}

```

6. Write a program which takes a character as an input and display its ASCII code.

```

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

```

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

```

#include <stdio.h>
int main()
{
    int x, result, count = 0;
    printf("Enter a Number");
    while (x != 0)
    {
        result = x & 1;
        count++;
        if (result == 1)
        {
            printf("Position of 1 is %d", count);
            break;
        }
        x = x >> 1;
    }
    return 0;
}

```



8. Write a program to Check whether the given number is even or odd using the `if` + `else` operator

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

```
int main ()
```

```
{
```

```
    int x;
```

```
    printf ("Enter a Number:");
```

```
    scanf ("%d", &x);
```

```
    if (x % 2 == 0)
```

```
    {
```

```
        printf ("Even");
```

```
    }
```

```
    else
```

```
    {
```

```
        printf ("Odd");
```

```
    }
```

```
    return 0;
```

```
}
```

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

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

```
int main ()
```

```
{
```

```
    int x;
```

```
    char ch;
```

```
    float f;
```

```
    double d;
```

```
    x = sizeof (x);
```

```
    ch = sizeof (ch);
```

```
    f = sizeof (f);
```

```
    d = sizeof (d);
```

```
    printf ("Size of int is %d", x);
```

```
    printf ("Size of char is %d", ch);
```

```
    printf ("Size of float is %d", f);
```

```
    printf ("Size of double is %d", d);
```

```
}
```



10. write a Program to make the digit of number stored in a variable as zero.  
(Ex- if  $x = 2345$  then make it  $x = 2340$ )

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

```
int main()
```

```
{
```

```
    int x, rem;
```

```
    printf("Enter a Number");
```

```
    scanf("%d", & x);
```

```
    rem = x % 10
```

```
    x = x - rem
```

```
    printf("The Number b8t digit zero is %d", x);
```

```
    return 0;
```

```
}
```

11. write a Program to input a number from the user and also input a digit. Append the digit in the number and print the resulting number.

(Ex:- number = 234 and digit = 9 then the resulting number is 2349)

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

```
int main()
```

```
{
```

```
    int num, digit;
```

```
    printf("Enter Number");
```

```
    scanf("%d", & num);
```

```
    printf("Enter a digit");
```

```
    scanf("%d", & digit);
```

```
    printf("Resulting number is %d %d", num, digit);
```

```
    return 0;
```

```
}
```



12.

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

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

```
int main ()
```

```
{
```

```
int amt, float USD;
```

```
printf ("Enter Amount in INR:");
```

```
scanf ("%d", &amt);
```

```
USD = (1 / 76.23) * amt;
```

```
printf ("%.d is USD is %.2f", amt, USD);
```

```
return 0;
```

```
}
```

13.

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

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

```
int main ()
```

```
{
```

```
int x;
```

```
printf ("Enter a Number");
```

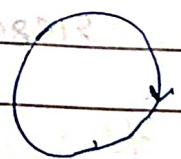
```
scanf ("%d", &x);
```

```
y = (x % 10) * 100 + x / 10;
```

```
printf ("Rotate of %.d is %.d", x, y);
```

```
return 0;
```

```
}
```



742