**Assignment - 6 C Language LIVE Community Classes MySirG**

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

Ans=1)#include<stdio.h>

#include<conio.h>

int main()

{

    printf("\nThe size of an integer is %d \n The size of float is %d\n The size of char is %d\n The size of double is %d ", sizeof(int),sizeof(float),sizeof(char),sizeof(double));

    getch();

}

Output:-

The size of an integer is 4

The size of float is 4

The size of char is 1

The size of double is 8

1. Write a program to find last digit of a given number

Ans=2)#include<stdio.h>

#include<conio.h>

int main()

{

    int num,Last\_digit;

    printf("Enter number=");

    scanf("%d",&num);

    Last\_digit= num%10;

    printf("Last digit of %d is %d",num,Last\_digit);

    getch();

}

Output:-

Enter number=75532

Last digit of 75532 is 2

1. Write a program to find first digit of a given three digit number

Ans=3)#include<stdio.h>

#include<conio.h>

int main()

{

    int num,first\_digit;

    printf("Enter number=");

    scanf("%d",&num);

    first\_digit= num/100;

    printf("First digit of %d is %d",num,first\_digit);

    getch();

}

Output:-

Enter number=876

First digit of 876 is 8

1. Write a program to find middle digit of a given three digit number

Ans=4)#include<stdio.h>

#include<conio.h>

int main()

{

    int num,middle\_digit,i;

    printf("Enter number=");

    scanf("%d",&num);

    i=num/10;

    middle\_digit= i%10;

    printf("Middle digit of %d is %d",num,middle\_digit);

    getch();

}

Output:-

Enter number=897

Middle digit of 897 is 9

1. Write a program to swap values of two int variables

Ans=5)#include<stdio.h>

#include<conio.h>

int main()

{

    int a,b,c;

    printf("Enter a=");

    scanf("%d",&a);

    printf("\nEnter b=");

    scanf("%d",&b);

    printf("\nThe value of a is %d and b is %d before swapping",a,b);

    c=a;

    a=b;

    b=c;

    printf("\nThe value of a is %d and b is %d after swapping",a,b);

    getch();

}

Output:-

Enter a=8

Enter b=9

The value of a is 8 and b is 9 before swapping

The value of a is 9 and b is 8 after swapping

1. Write a program to swap values of two int variables without using third variable

#include<stdio.h>

#include<conio.h>

int main()

{

    int a,b;

    printf("Enter a=");

    scanf("%d",&a);

    printf("\nEnter b=");

    scanf("%d",&b);

    printf("\nThe value of a is %d and b is %d before swapping",a,b);

    a=a+b;

    b=a-b;

    a=a-b;

    printf("\nThe value of a is %d and b is %d after swapping",a,b);

    getch();

}

Output:-

Enter a=8

Enter b=3

The value of a is 8 and b is 3 before swapping

The value of a is 3 and b is 8 after swapping

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=7)#include<stdio.h>

#include<conio.h>

int main()

{

    int num;

    printf("Enter num=");

    scanf("%d",&num);

    num=num/10;

    num=num\*10;

    printf("\nThe new number is %d",num);

    getch();

}

Output:-

Enter num=7543287

The new number is 7543280

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)

Ans=8)#include<stdio.h>

#include<conio.h>

int main()

{

    int num,digit,resulting\_num;

    printf("Enter num=");

    scanf("%d",&num);

    printf("Enter digit=");

    scanf("%d",&digit);

    num=num\*10;

    resulting\_num=num+digit;

    printf("\nThe Resulting number is %d",resulting\_num);

    getch();

}

Output:-

Enter num=83473

Enter digit=7

The Resulting number is 834737

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=9)#include<stdio.h>

#include<conio.h>

int main()

{

    float inr,usd;

    // given, 1 usd = 76.23 inr

    printf("Enter inr=");

    scanf("%f",&inr);

    usd=(1/76.23)\*inr;

    printf("\n %f inr is %f in usd",inr,usd);

    getch();

}

Output:-

Enter inr=90.60

90.599998 inr is 1.188508 in usd

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

position towards the right.

Ans=10)#include<stdio.h>

#include<conio.h>

int main()

{

    int  num,new\_num,a;

    printf("Enter num=");

    scanf("%d",&num);

    a=num/10; //for finding middle digit

a=a%10; //for finding middle digit

new\_num=(num%10)\*100 + (num/100)\*10 + a;

    printf("The number after rotating one position towards right is %d",new\_num);

    getch();

}

Output:-

Enter num=768

The number after rotating one position towards right is 876