**Day 1- (simple arithmetic program)**

**Assignment No. 1**

**Addition of two numbers**

***Program code:***

#include<stdio.h>

void main()

{

float num1,num2,sum;

printf("Enter two numbers: ");

scanf("%f %f",&num1,&num2);

sum=num1+num2;

printf("Result of the sum is: %.2f",sum);

}

***Output:***

Enter two numbers: 2

3

Result of the sum is: 5.00

**Assignment No. 2**

**Find area and perimeter of a rectangle**

***Program code:***

#include<stdio.h>

void main()

{

float height,width,perimeter,area;

printf("Enter the height & width of the rectangle: ");

scanf("%f %f",&height,&width);

perimeter=2\*(height+width);

area=height\*width;

printf("Perimeter = %.2f unit\nArea = %.2f square unit\n",perimeter,area);

}

***Output:***

Enter the height & width of the rectangle: 12 34

Perimeter = 92.00 unit

Area = 408.00 square unit

**Assignment No. 3**

**Input three decimal numbers and find there sum and average**

***Program code:***

#include<stdio.h>

void main()

{

int num1,num2,num3,sum;

float avg;

printf("Enter three numbers: ");

scanf("%d %d %d",&num1,&num2,&num3);

sum=num1+num2+num3;

avg=sum/3;

printf("Result of the sum is: %d\n Avarage is: %.2f",sum,avg);

}

***Output:***

Enter three numbers: 2 45 50

Result of the sum is: 97

Avarage is: 32.00

**Assignment No. 4**

**Input two numbers and swap them-**

1. **Using a third variable**

***Program code:***

#include<stdio.h>

void main()

{

int num1,num2,temp;

printf("Enter two numbers: ");

scanf("%d %d",&num1,&num2);

printf("The numbers before swap is: %d and %d\n",num1,num2);

temp=num2;

num2=num1;

num1=temp;

printf("The numbers after swap is: %d and %d\n",num1,num2);

}

***Output:***

Enter two numbers: 23

45

The numbers before swap is: 23 and 45

The numbers after swap is: 45 and 23

1. **Without using third variable**

***Program code:***

#include<stdio.h>

void main()

{

int num1,num2;

printf("Enter two numbers: ");

scanf("%d %d",&num1,&num2);

printf("The numbers before swap is: %d and %d\n",num1,num2);

num1=num1+num2;

num2=num1-num2;

num1=num1-num2;

printf("The numbers after swap is: %d and %d\n",num1,num2);

}

***Output:***

Enter two numbers: 12

90

The numbers before swap is: 12 and 90

The numbers after swap is: 90 and 12

**Assignment No. 5**

**Input temperature in Celsius and convert it to Fahrenheit**

***Program code:***

#include<stdio.h>

void main()

{

float cel,fahr;

printf("Enter the temperature in Celsius: ");

scanf("%f",&cel);

fahr=(cel\*1.8)+32;

printf("The temperature in Fahrenheit is: %.2f",fahr);

}

***Output:***

Enter the temperature in Celsius: 0

The temperature in Fahrenheit is: 32.00

Enter the temperature in Celsius: 100

The temperature in Fahrenheit is: 212.00