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–

a. 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
```

b. 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