Example 1

/* A program to find the area and perimeter of a circle */

Solution

```c
#include <stdio.h>

int main()

{

        //variable declaration

        int r;

        float p;

        float A;

        //reading data

        printf ("\ninput radius of the circle: \t");

        scanf ("%d", &r);

        // calculation

        p = 2*3.143*r;

        A = 3.142*r*r;

        //output

        printf ("\nPerimeter of the circle = %d", p);

        printf ("\nArea of the cicle is = %f", A );

        return 0;

}
```

Example 2

/* A program to accept the salary and age of a person and display it as output */

Solution

```c
#include <stdio.h>

int main ()
{
        //declaring variable
        int salary;
        int age;

        //reading data
        printf ("input salary here:\t ");
        scanf("%d" , &salary);
        printf ("input age here:\t ");
        scanf ("%d" , &age);

        //output
        printf ("salary = %d" , salary);
        printf ("\nage = %d" , age);
}
```

Example 3

/* A program to evaluate the expression z = a*b+(c/d)-e*f */

Solution

```c
#include <stdio.h>

int main ()
{
        //declaring variables
        int a = 10;

        int b = 10;

        float c = 15.75;

        int d = 4;

        int e = 2;

        float f = 5.6;

        float z = a*b+(c/d)-e*f;


        //output
        printf ("The value of a*b+(c/d)-e*f is %f", z);

}
```

Example 4

/* Write a program to evaluate the net salary of an employee given the following constraints:

Basic salary = $1200,

DA = 12% of basic salary,

HRA = $150,

TA = $120,

Others = $450,

Tax cuts - a) PF = 14% of basic salary   b) IT = 15% of basic salary

Net salary = basic salary + DA + DHA + TA + Others - (PF + IT)*/

/* A program to evaluate the net salary given some constraint */

Solution

```
#include <stdio.h>
int main ()
{
        //declaring variable
        int basic_salary;
        int DA;
        int HRA;
        int TA;
        int others;
        int PF;
        int IT;
        int net_salary;

        //assigning value to variable
        basic_salary = 12000;
        DA = 0.12*12000;
```

```
HRA = 150;

TA = 120;

others = 450;

PF = 0.14*12000;

IT = 0.15*12000;


//assigning operation to variables using variable net_salary

net_salary = basic_salary + DA + HRA + TA + others - (PF+IT);


//output

printf ("\nThe net salary of the employee is %d", net_salary);
}
```

Example 5

/* A program to accept and add three numbers */

Solution

```c
#include <stdio.h>

int main ()

{
        //declaring variables

        int a;

        int b;

        int c;

        int res;


        //inputing aand accepting data

        printf ("Enter three numbers here:\n");

        scanf ("\n%d", &a);

        scanf ("\n%d", &b);

        scanf ("\n%d", &c);


        //assigning value

        res = a+b+c;


        //output

        printf ("The sum of the numbers is %d", res);

}
```

Example 5

/* A program to ask for a person's first name and last name and print it out in the

format first name last name*/

Solution

```c
#include <stdio.h>
int main ()
{
        //variable declaration
        char first_name[20];
        char last_name[20];

        //inputing and reading data
        printf ("Enter your first name: ");
        scanf ("%s", &first_name);
        printf ("Enter your last name: ");
        scanf ("%s", &last_name);

        //output
        printf ("\nYour name is %s %s", last_name, first_name);
}
```