C Programming Assignment 1

Nisarg Patel

August 2025

1 QUESTION 1 : ADD TWO NUMBERS

```c
#include <stdio.h>

int main()
{
    int a, b, c_sum;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter two numbers: "  );
    scanf("%d %d", &a, &b);
    c_sum = a + b;
    printf("Sum = %d\n", c_sum);

}
```
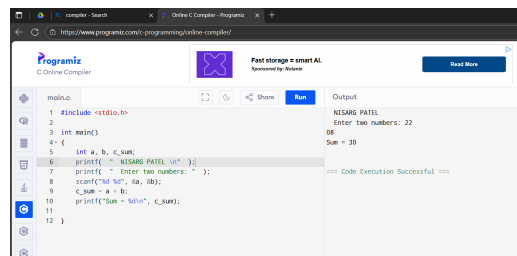
Program Output Screenshot

Figure 1: Program 1

Nisarg Patel

August 26, 2025

QUESTION 2:SUBSTRACT TWO NUMBERS

```c
#include <stdio.h>

int main()
{
    int a, b, c_subtract;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter two numbers: "  );
    scanf("%d %d", &a, &b);
    c_subtract = a - b;
    printf("Sub = %d\n", c_subtract);

}
```
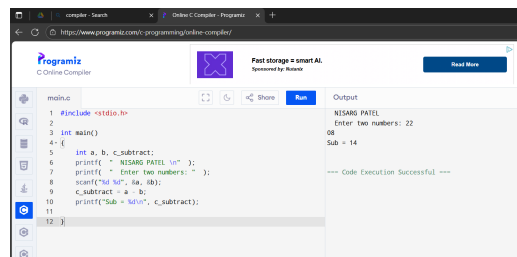
Program Output Screenshot

Figure 1: Program 2

Nisarg Patel

August 26, 2025

QUESTION 2: MULTIPLY TWO NUMBERS

```c
#include <stdio.h>

int main()
{
    int a, b, c_multiply;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter two numbers: "  );
    scanf("%d %d", &a, &b);
    c_multiply = a * b;
    printf("product = %d\n", c_multiply);

}
```
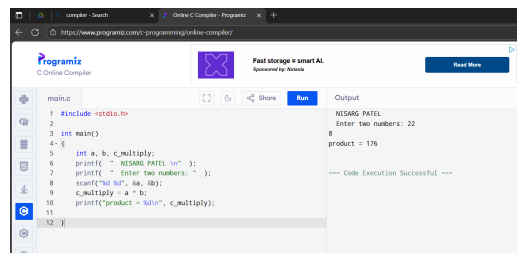
Program Output Screenshot

Figure 1: Program 3

Nisarg Patel

August 26, 2025

QUESTION 4: DIVIDE TWO NUMBERS

```c
#include <stdio.h>

int main()
{
    float a, b, c_divison;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter two numbers: "  );
    scanf("%f %f", &a, &b);
    c_divison = a / b;
    printf("quotient = %f\n", c_divison);

}
```
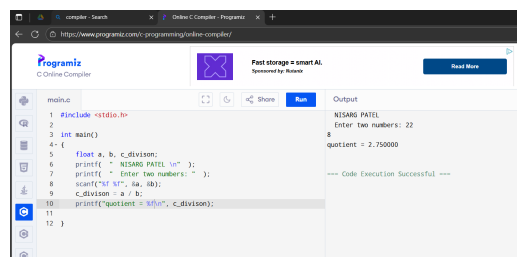
Program Output Screenshot

Figure 1: Program 4

QUESTION 5: ALL OPT NUMBERS

```c
#include <stdio.h>

int main()
{
    float a, b, c_divison,c_multiply,c_addition,c_subtract;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter two numbers: "  );
    scanf("%f %f", &a, &b);
    c_divison = a / b;
    printf("quotient = %f\n", c_divison);
    c_multiply=a*b;
    printf("product = %f\n", c_multiply);
    c_addition=a+b;
    printf("sum = %f\n", c_addition);
    c_subtract=a-b;
    printf("subtract = %f\n", c_subtract);
}
```

Program Output Screenshot

Figure 1: Program 5

QUESTION 6: HOUR TO MIN CONVERSION PGM

```c
#include <stdio.h>

int main()
{
    int hour,minutes;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter time inn hour : "  );
    scanf("%d", &hour);
    minutes = hour * 60;
    printf ( "minutes = %d\n ",minutes );
}
```

Program Output Screenshot
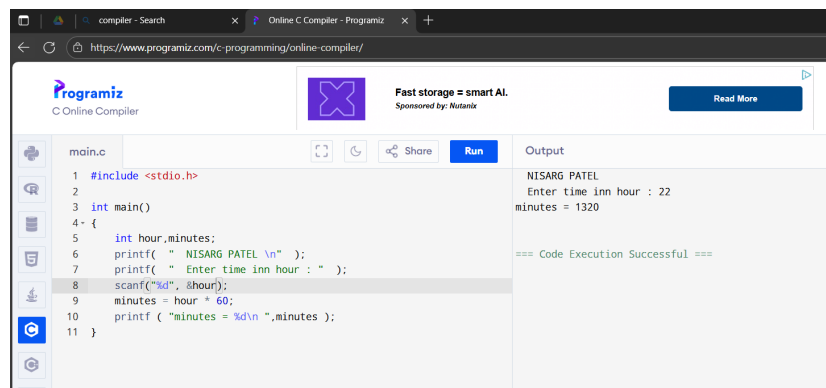
Figure 1: Program 6

QUESTION 7 : MINUTES INTO HOURS

```c
#include <stdio.h>

int main()
{
    float hour,minutes;
    int h,m;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter time inn MINUTES : "  );
    scanf("%f", &minutes);
    hour = minutes / 60;
    printf ( "hour = %.2f\n ",hour );
     h = (int)(minutes / 60);
    m = (int)minutes % 60;
printf(": %d hours and %d minutes\n", h, m);
}
```

Program Output Screenshot
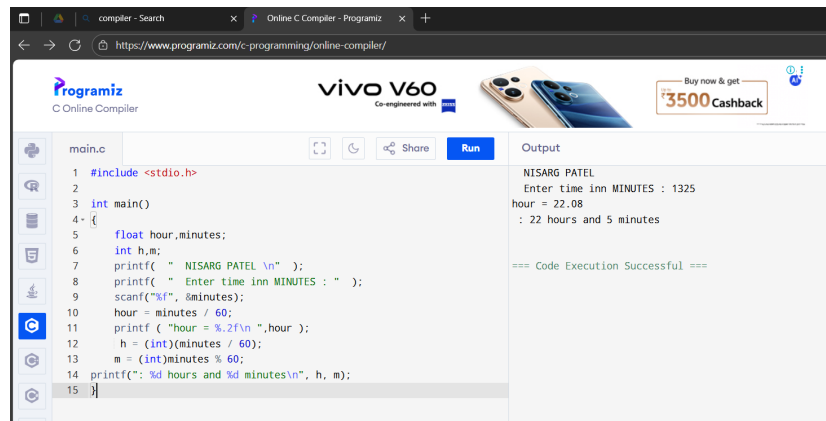
Figure 1: Program 7

QUESTION 8 : CONVERRT DOLLAR INTO RU-PEES

```c
#include <stdio.h>

int main()
{
    float DOLLAR,RUPEES;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter MONEY inn DOLLAR : "  );
    scanf("%f", &DOLLAR);
    RUPEES = DOLLAR *48;
    printf ( "RUPEES = %.2f\n ",RUPEES );

}
```

Program Output Screenshot
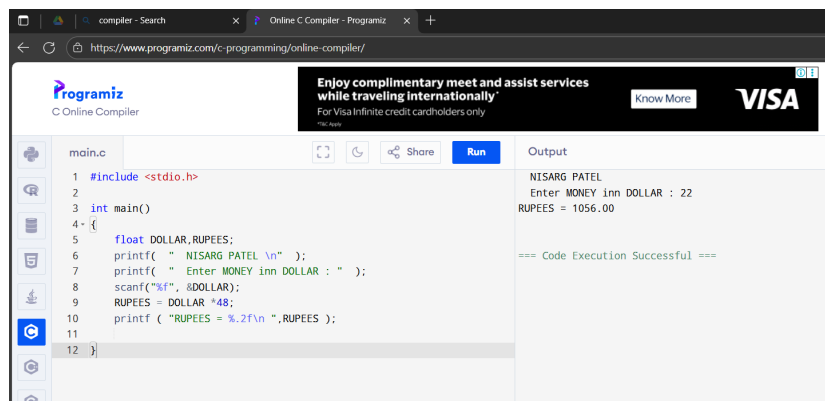
Figure 1: Program 8

QUESTION 9 : CONVERRT RUPEES INTO DOL-LAR

```c
#include <stdio.h>

int main()
{
    float DOLLAR,RUPEES;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter MONEY inn RUPEES : "  );
    scanf("%f", &RUPEES);
    DOLLAR = RUPEES /48;
    printf ( "DOLLAR = %.2f\n ",DOLLAR );

}
```

Program Output Screenshot
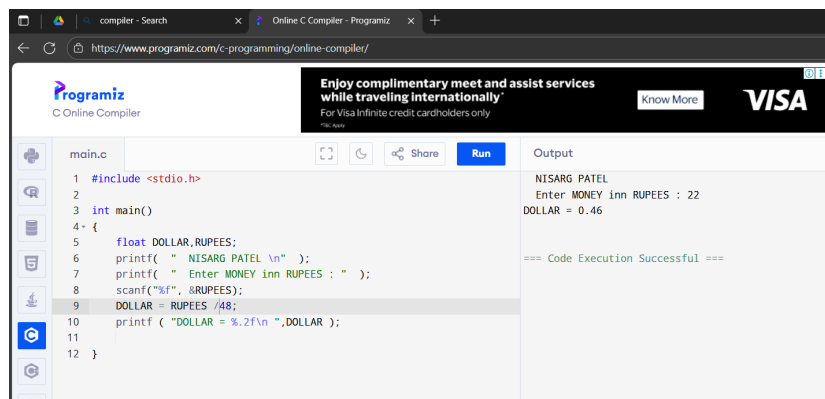
Figure 1: Program 9
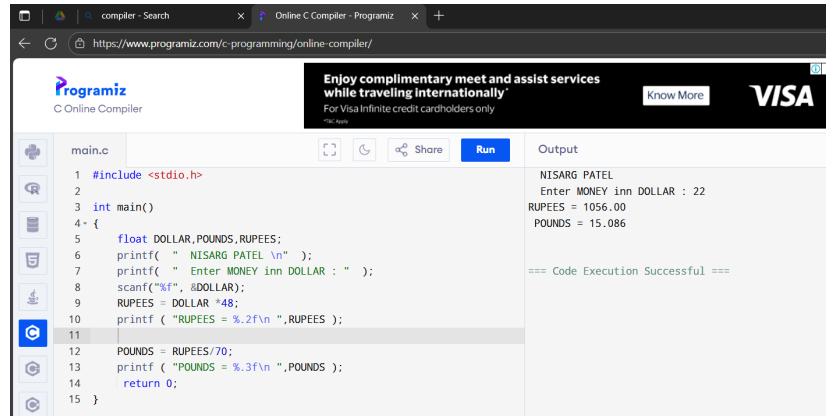
QUESTION 10 : CONVERT DOLLAR INTO POUNDS

```c
#include <stdio.h>

int main()
{
    float DOLLAR,POUNDS,RUPEES;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter MONEY inn DOLLAR : "  );
    scanf("%f", &DOLLAR);
    RUPEES = DOLLAR *48;
    printf ( "RUPEES = %.2f\n ",RUPEES );

    POUNDS = RUPEES/70;
    printf ( "POUNDS = %.3f\n ",POUNDS );
}
```

Program Output Screenshot

Figure 1: Program 10

QUESTION 11 : CONVERT GRAMS INTO KGS

```c
#include <stdio.h>

int main()
{
    float GRAMS,KILOGRAMS;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter AMOUNT inn GRAMS : "  );
    scanf("%f", &GRAMS);
    KILOGRAMS = GRAMS /1000;
    printf ( "KILOGRAMS = %.3f\n ",KILOGRAMS );
}
```

Program Output Screenshot
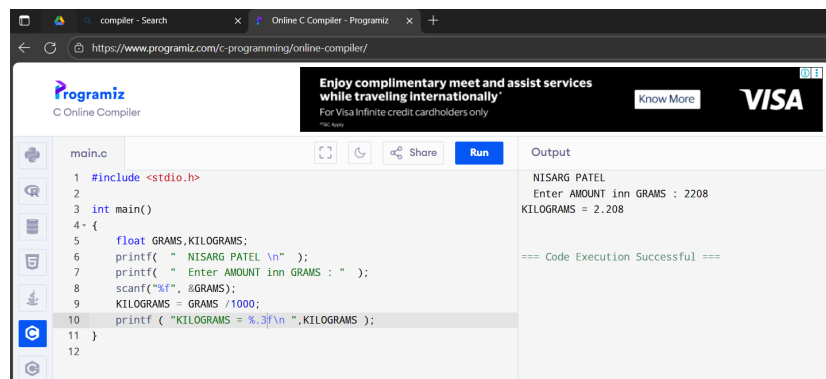
Figure 1: Program 11

QUESTION 12 : CONVERT KILOGRAMS INTO GRAMS

```c
#include <stdio.h>

int main()
{
    int GRAMS,KILOGRAMS;
    printf(  "  NISARG PATEL \n"  );
    printf(  "  Enter AMOUNT inn KILOGRAMS : "  );
    scanf("%d", &KILOGRAMS);
    GRAMS = KILOGRAMS *1000;
    printf ( "GRAMS = %d\n ",GRAMS);
}
```

Program Output Screenshot
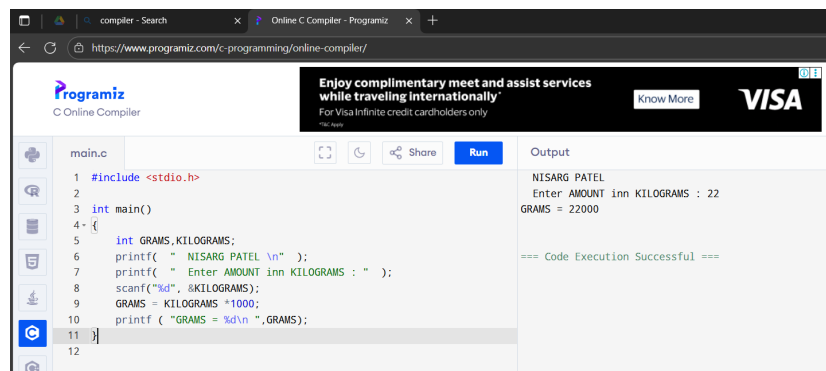
Figure 1: Program 12

1

QUESTION 13 :

: CONVERT BYTES INTO KB,MB,GB

```c
#include <stdio.h>

int main()
{
    int BYTES;
    float KB, MB, GB;

    printf("  NISARG PATEL \n");
    printf("  Enter AMOUNT in BYTES : ");
    scanf("%d", &BYTES);

    // Step 1: Bytes to KB
    KB = BYTES / 1024.0;
    printf("STEP 1:\n : KB = BYTES / 1024\n");
    printf("KB = %f\n\n", KB);

    // Step 2: KB to MB
    MB = KB / 1024.0;
    printf("STEP 2:\n : MB = KB / 1024\n");
    printf("MB = %f\n\n", MB);

    // Step 3: MB to GB
    GB = MB / 1024.0;
    printf("STEP 3:\n : GB = MB / 1024\n");
    printf("GB = %f\n", GB);
}
```
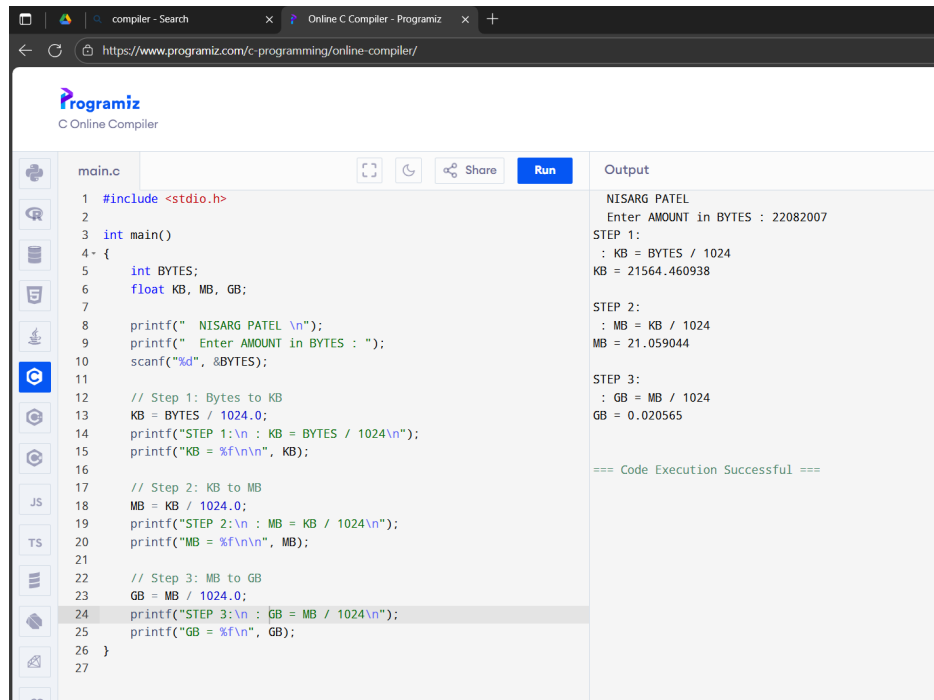
Program Output Screenshot

Figure 1: Program 13

QUESTION 14 :

: CONVERT CELSIUS INTO FARENHEIT

```c
#include <stdio.h>

int main()
{

    float CELSIUS,FARENHEIT;

    printf("  NISARG PATEL \n");
    printf("  Enter TEMPERATURE in CELSIUS : ");
    scanf("%f", &CELSIUS);
    FARENHEIT=((9.0/5.0)*CELSIUS)+32;
    printf("FARENHEIT=%f\n",FARENHEIT);
}
```

Program Output Screenshot
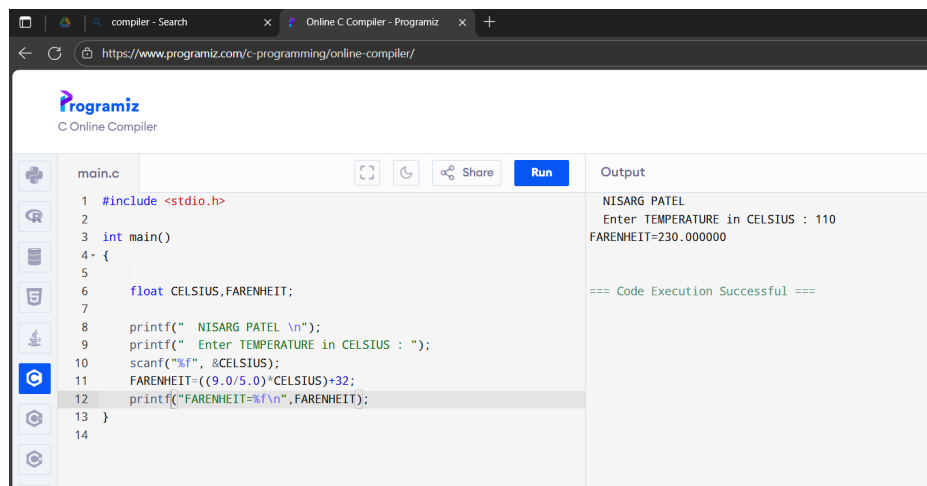
Figure 1: Program 14

1

QUESTION 15 :

: CONVERT FARENHEIT INTO CELSIUS

```c
#include <stdio.h>

int main()
{

    float CELSIUS,FARENHEIT;

    printf("  NISARG PATEL \n");
    printf("  Enter TEMPERATURE in FARENHEIT : ");
    scanf("%f", &FARENHEIT);
    CELSIUS=(5.0/9.0)*(FARENHEIT-32);
    printf("CELSIUS=%f\n",CELSIUS);
}
```

Program Output Screenshot
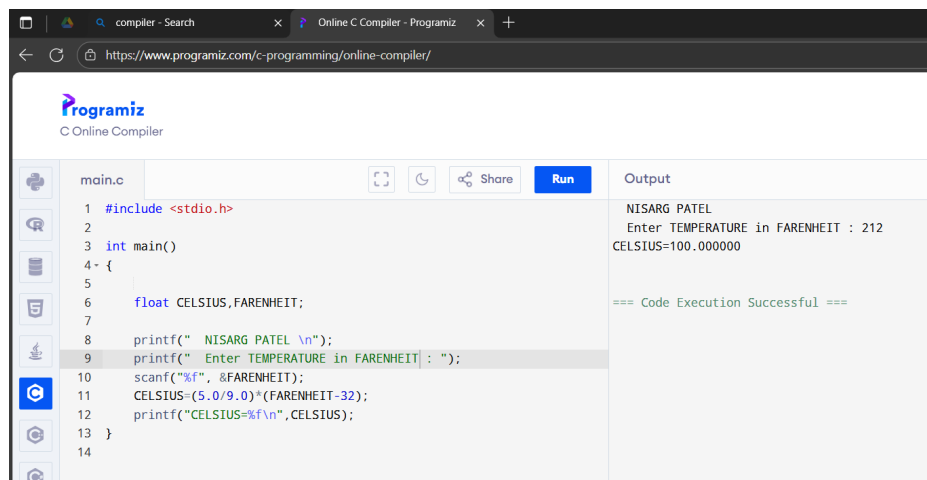
Figure 1: Program 15

1

QUESTION 16 :

: CALCULATE INTEREST
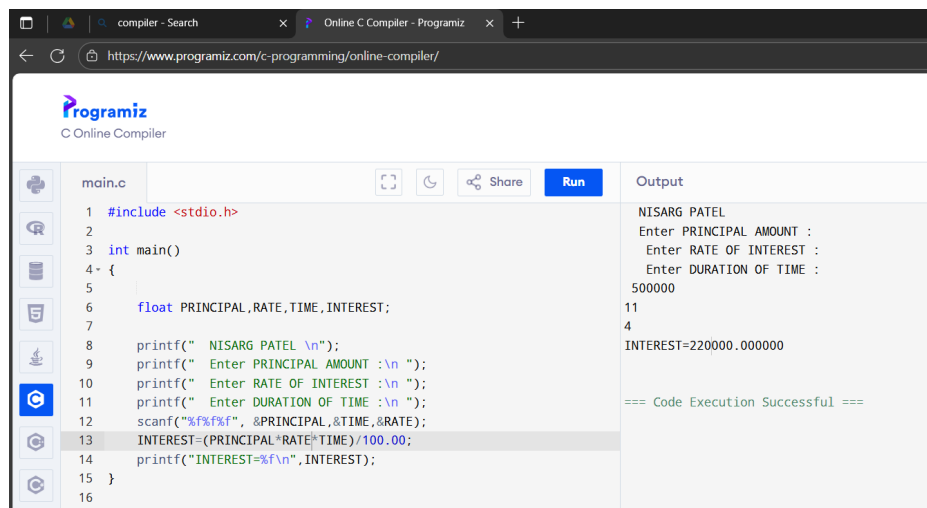
```c
#include <stdio.h>

int main()
{

    float PRINCIPAL,RATE,TIME,INTEREST;

    printf("  NISARG PATEL \n");
    printf("  Enter PRINCIPAL AMOUNT :\n ");
    printf("  Enter RATE OF INTEREST :\n ");
    printf("  Enter DURATION OF TIME :\n ");
    scanf("%f%f%f", &PRINCIPAL,&TIME,&RATE);
    INTEREST=(PRINCIPAL*RATE*TIME)/100.00;
    printf("INTEREST=%f\n",INTEREST);
}
```

Program Output Screenshot

Figure 1: Program 16

1

QUESTION 17 :

: CALCULATE AREA AND PERIMETER OF SQUARE
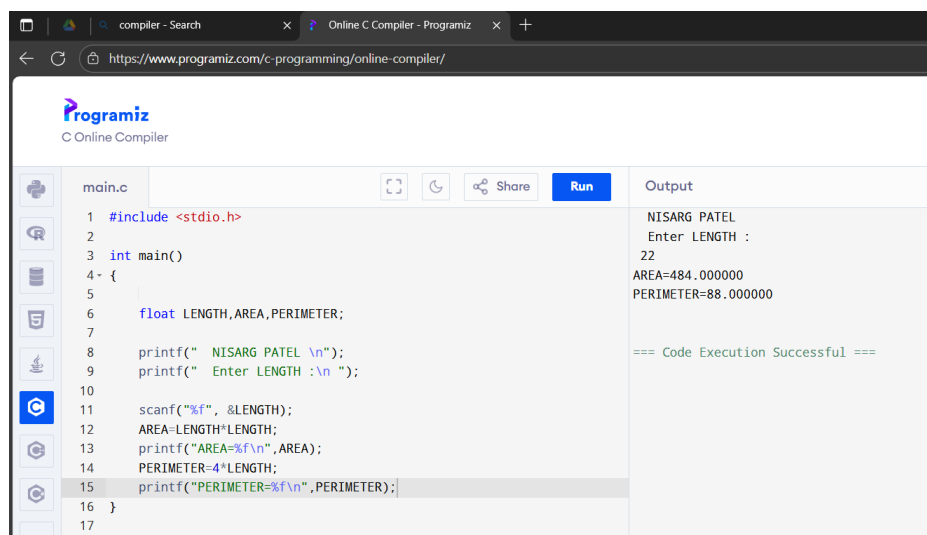
```c
#include <stdio.h>

int main()
{

    float LENGTH,AREA,PERIMETER;

    printf("  NISARG PATEL \n");
    printf("  Enter LENGTH :\n ");

    scanf("%f", &LENGTH);
    AREA=LENGTH*LENGTH;
    printf("AREA=%f\n",AREA);
    PERIMETER=4*LENGTH;
    printf("PERIMETER=%f\n",PERIMETER);
}
```

Program Output Screenshot

1

Figure 1: Program 17

QUESTION 18 :

: CALCULATE AREA AND PERIMETER OF RECT-ANGLE
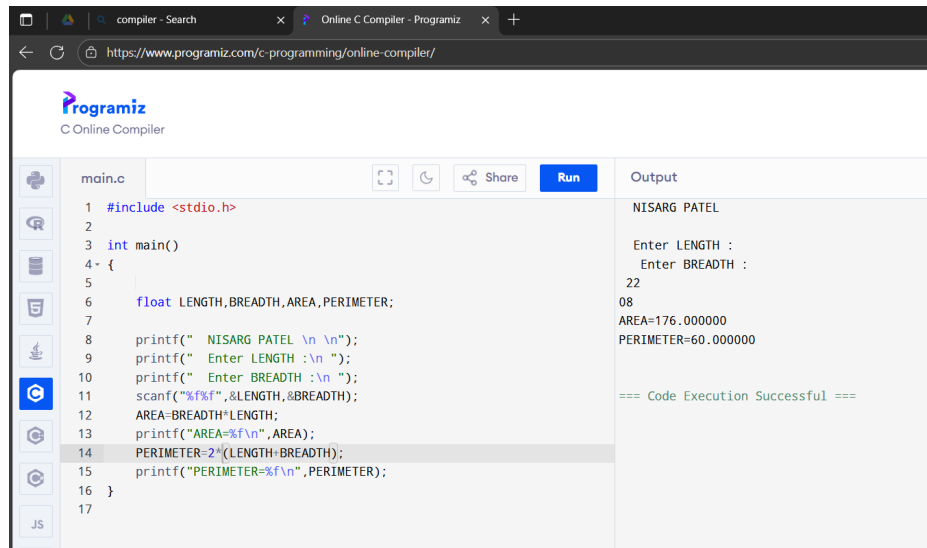
```c
#include <stdio.h>

int main()
{

    float LENGTH,BREADTH,AREA,PERIMETER;

    printf("  NISARG PATEL \n \n");
    printf("  Enter LENGTH :\n ");
    printf("  Enter BREADTH :\n ");
    scanf("%f%f",&LENGTH,&BREADTH);
    AREA=BREADTH*LENGTH;
    printf("AREA=%f\n",AREA);
    PERIMETER=2*(LENGTH+BREADTH);
    printf("PERIMETER=%f\n",PERIMETER);
}
```

Program Output Screenshot

Figure 1: Program 18

QUESTION 19 :

: CALCULATE AREA OF CIRCLE
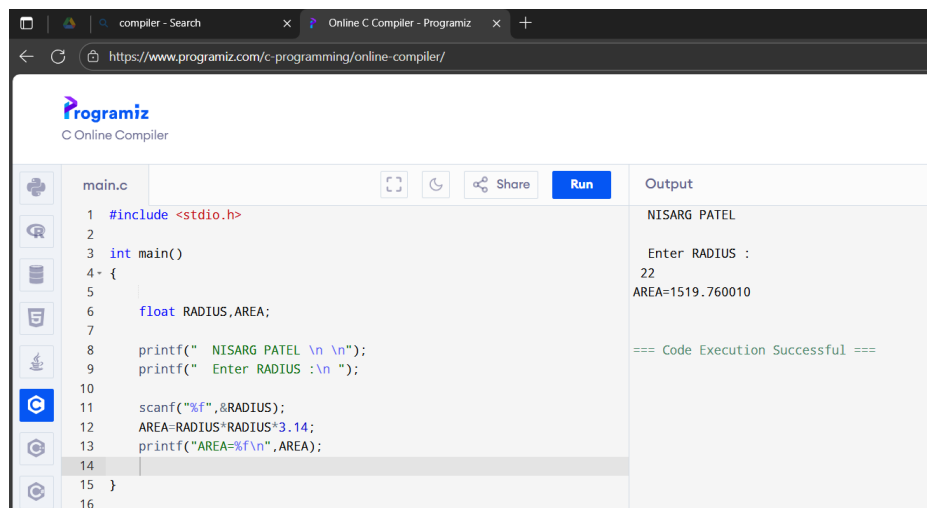
```c
#include <stdio.h>

int main()
{

    float RADIUS,AREA;

    printf("  NISARG PATEL \n \n");
    printf("  Enter RADIUS :\n ");

    scanf("%f",&RADIUS);
    AREA=RADIUS*RADIUS*3.14;
    printf("AREA=%f\n",AREA);

}
```

Program Output Screenshot

Figure 1: Program 19

QUESTION 20 :

: CALCULATE AREA OF TRIANGLE
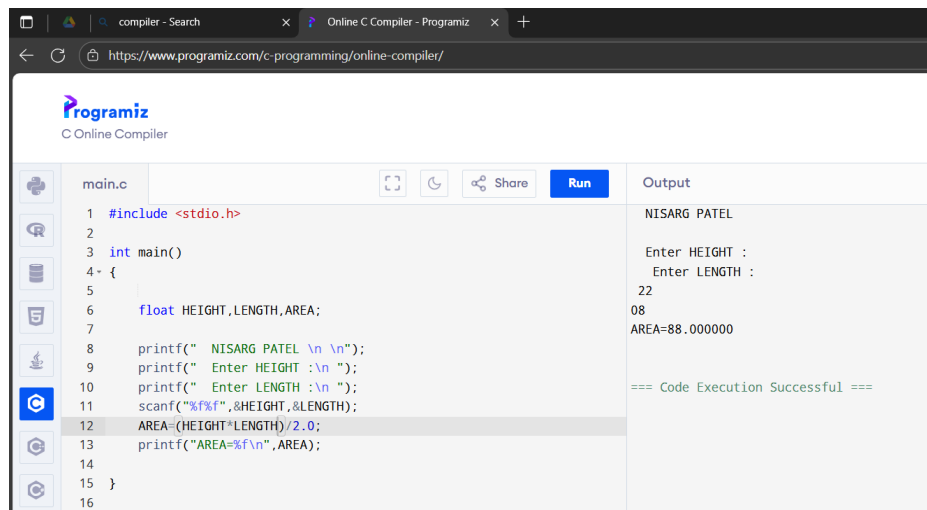
```c
#include <stdio.h>

int main()
{

    float HEIGHT,LENGTH,AREA;

    printf("  NISARG PATEL \n \n");
    printf("  Enter HEIGHT :\n ");
    printf("  Enter LENGTH :\n ");
    scanf("%f%f",&HEIGHT,&LENGTH);
    AREA=(HEIGHT*LENGTH)/2.0;
    printf("AREA=%f\n",AREA);

}
```

Program Output Screenshot

Figure 1: Program 20

QUESTION 21 :

: CALCULATE NET SALARY (ALLOWANCE 10 PER)(DEDUCTION 3 PER)
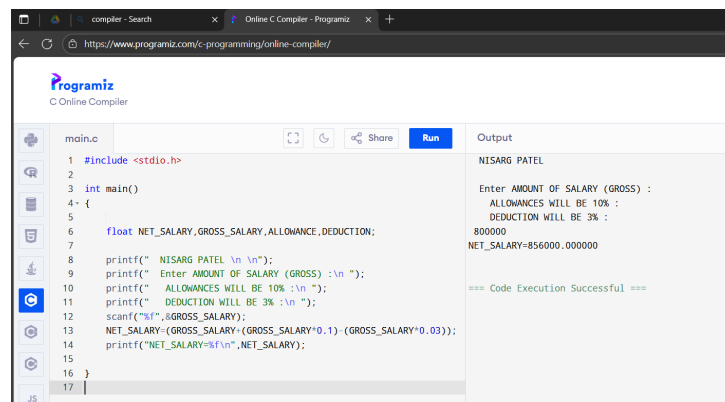
```c
#include <stdio.h>

int main()
{

    float NET_SALARY,GROSS_SALARY,ALLOWANCE,DEDUCTION;

    printf("   NISARG PATEL \n \n");
    printf("   Enter AMOUNT OF SALARY (GROSS) :\n ");
    printf("    ALLOWANCES WILL BE 10% :\n ");
    printf("    DEDUCTION WILL BE 3% :\n ");
    scanf("%f",&GROSS_SALARY);
    NET_SALARY=(GROSS_SALARY+(GROSS_SALARY*0.1)-(GROSS_SALARY*0.03));
    printf("NET_SALARY=%f\n",NET_SALARY);

}
```

Program Output Screenshot

Figure 1: Program 21

1

QUESTION 22 :

: CALCULATE NET SALES (DISCOUNT 10 PER)
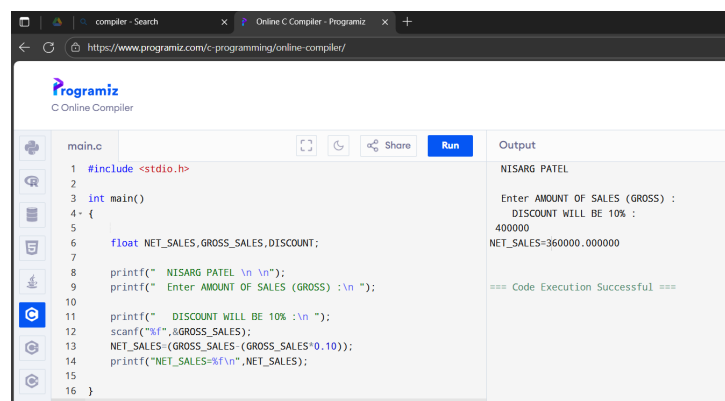
```c
#include <stdio.h>

int main()
{

    float NET_SALES,GROSS_SALES,DISCOUNT;

    printf("  NISARG PATEL \n \n");
    printf("  Enter AMOUNT OF SALES (GROSS) :\n ");

    printf("   DISCOUNT WILL BE 10% :\n ");
    scanf("%f",&GROSS_SALES);
    NET_SALES=(GROSS_SALES-(GROSS_SALES*0.10));
    printf("NET_SALES=%f\n",NET_SALES);

}
```

Program Output Screenshot

Figure 1: Program 22

1

QUESTION 23 :

: CALCULATE AVERAGE AND TOTAL FOR 3 SUB
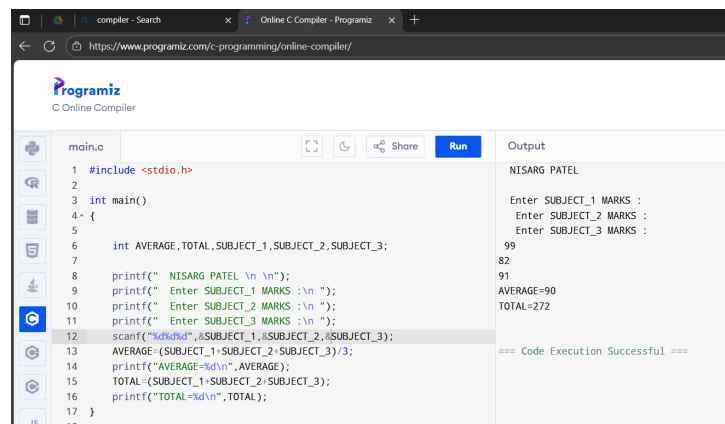
```c
#include <stdio.h>

int main()
{

    int AVERAGE,TOTAL,SUBJECT_1,SUBJECT_2,SUBJECT_3;

    printf("  NISARG PATEL \n \n");
    printf("  Enter SUBJECT_1 MARKS :\n ");
    printf("  Enter SUBJECT_2 MARKS :\n ");
    printf("  Enter SUBJECT_3 MARKS :\n ");
    scanf("%d%d%d",&SUBJECT_1,&SUBJECT_2,&SUBJECT_3);
    AVERAGE=(SUBJECT_1+SUBJECT_2+SUBJECT_3)/3;
    printf("AVERAGE=%d\n",AVERAGE);
    TOTAL=(SUBJECT_1+SUBJECT_2+SUBJECT_3);
    printf("TOTAL=%d\n",TOTAL);
}
```

Program Output Screenshot

Figure 1: Program 23
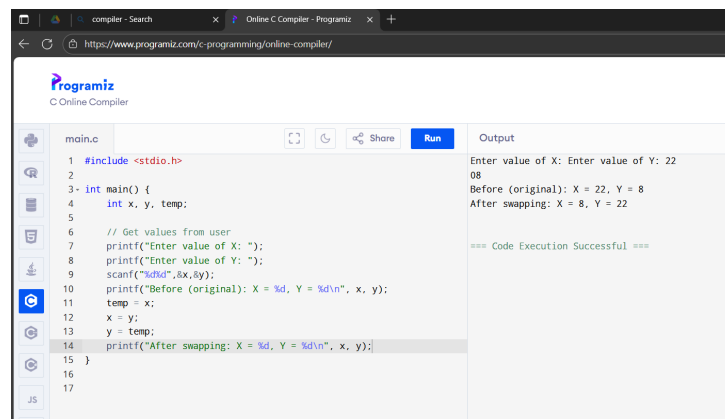
QUESTION 24 :

: SWAPPING OF TWO VALUES

```c
#include <stdio.h>

int main() {
    int x, y, temp;
    printf("Enter value of X: ");
    printf("Enter value of Y: ");
    scanf("%d%d",&x,&y);
    printf("Before (original): X = %d, Y = %d\n", x, y);
    temp = x;
    x = y;
    y = temp;
    printf("After SWAPPING : X = %d, Y = %d\n", x, y);
}
```

Program Output Screenshot

Figure 1: Program 24