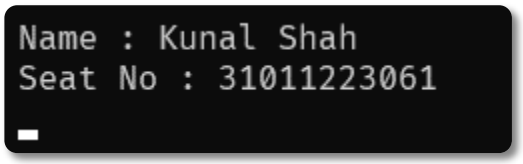
❖ Aim – Program to print name and roll number of a student

➢ Source Code –

```
#include <conio.h>
#include <stdio.h>
void main()
{
    printf("Name : Kunal Shah\n");
    printf("Seat No : 31011223061\n");
    getch();
}
```

➢ Output –



❖ Aim – Accept 2 float numbers from user and perform addition, subtraction, multiplication and division of the numbers

➢ Source Code –

```
#include <conio.h>
#include <stdio.h>
void main()
{
    float a, b;
    printf("Enter the first number: ");
    scanf("%f", &a);
    printf("Enter the second number: ");
    scanf("%f", &b);
    printf("Addition: %f + %f = %f\n", a, b, a + b);
    printf("Subtraction: %f - %f = %f\n", a, b, a - b);
    printf("Multiplication: %f * %f = %f\n", a, b, a * b);
    if (b != 0)
    {
        printf("Division: %f / %f = %f\n", a, b, a / b);
    }
    else
    {
        printf("Division by zero is not allowed.\n");
    }
    getch();
}
```

- Output –

```
Enter the first number: 5
Enter the second number: 2
Addition: 5.000000 + 2.000000 = 7.000000
Subtraction: 5.000000 - 2.000000 = 3.000000
Multiplication: 5.000000 * 2.000000 = 10.000000
Division: 5.000000 / 2.000000 = 2.500000
```

- Aim – Using '*' Symbol print 'A' in console windows

- Source Code –

```
#include <conio.h>
#include <stdio.h>
void main()
{

    printf("          *          \n");
    printf("         * *         \n");
    printf("        *   *        \n");
    printf("       *     *       \n");
    printf("      *       *      \n");
    printf("     *         *     \n");
    printf("    *************  \n");
    printf("   *             *   \n");
    printf("  *               *  \n");
    printf(" *                 * \n");
    printf("*                   *\n");
    printf("\n");

    getch();

}
```

- Output –

❖ Aim – Take two numbers as variable value from user and swap them using 3 variables

➢ Source Code –

```
#include <conio.h>
#include <stdio.h>

void main()
{
    int a, b, temp;
    printf("Enter the first number: ");
    scanf("%d", &a);
    printf("Enter the second number: ");
    scanf("%d", &b);
    printf("Before swapping: a = %d, b = %d\n", a, b);
    temp = a;
    a = b;
    b = temp;
    printf("After swapping: a = %d, b = %d\n", a, b);
    getch();
}
```

➢ Output –

```
Enter the first number: 5
Enter the second number: 8
Before swapping: a = 5, b = 8
After swapping: a = 8, b = 5
```

❖ Aim – Take two numbers as variable value from user and swap them using 2 variables

➢ Source Code –

```
#include <conio.h>
#include <stdio.h>

void main()
{   int a, b;
    printf("Enter the first number: ");
    scanf("%d", &a);
    printf("Enter the second number: ");
    scanf("%d", &b);
    printf("Before swapping: a = %d, b = %d\n", a, b);
```

```
    a = a + b;
    b = a - b;
    a = a - b;

    printf("After swapping: a = %d, b = %d\n", a, b);

    getch();
}
```

- Output –

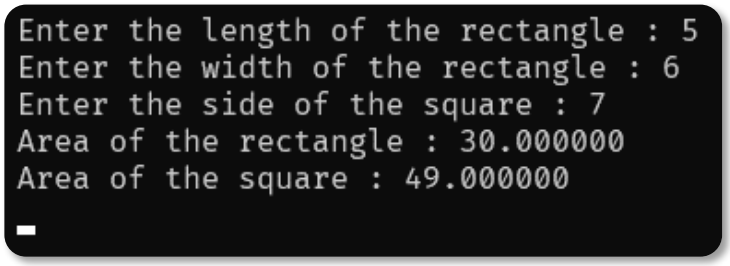
```
Enter the first number: 1
Enter the second number: 7
Before swapping: a = 1, b = 7
After swapping: a = 7, b = 1
```

- Aim – Accept values for length, breadth and side from user and give area for rectangle and square

- Source Code –

```
#include <conio.h>
#include <stdio.h>

void main()
{
    float length, width, side;

    printf("Enter the length of the rectangle : ");
    scanf("%f", &length);

    printf("Enter the width of the rectangle : ");
    scanf("%f", &width);

    printf("Enter the side of the square : ");
    scanf("%f", &side);

    printf("Area of the rectangle : %f\n", length * width);

    printf("Area of the square : %f\n", side * side);

    getch();
}
```

- Output –



- Aim – Accept values for distance covered and time required by bike from user and display speed of the bike according to input

- Source Code –

```
#include <conio.h>
#include <stdio.h>
void main()
{
    loat distance, time, speed;
    printf("Enter the distance traveled by the bike (in km): ");
    scanf("%f", &distance);

    printf("Enter the time taken by the bike (in hours): ");
    scanf("%f", &time);

    speed = distance / time;

    printf("The speed of the bike is %.2f km/h\n", speed);

    getch();
}
```

- Output –