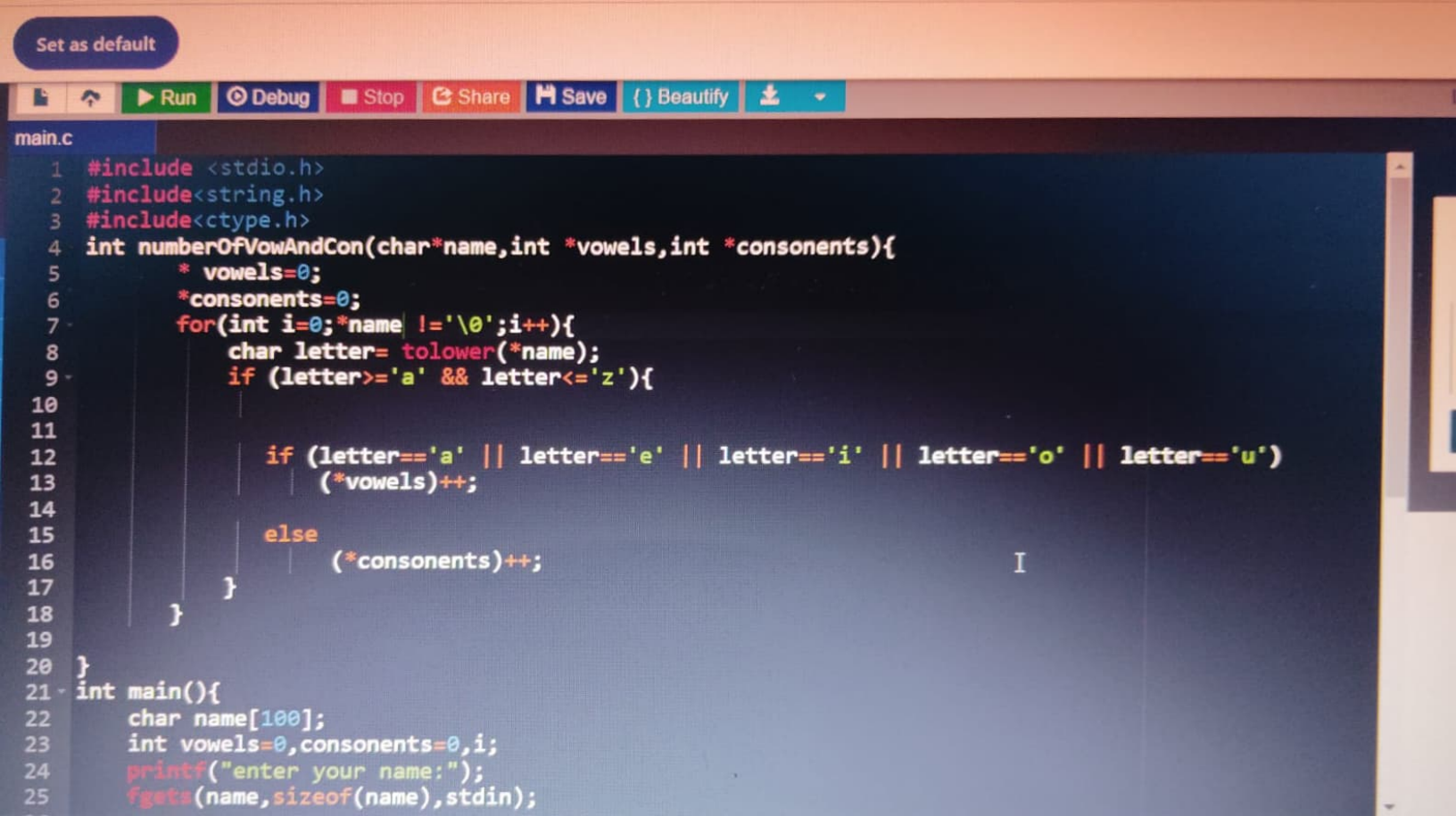
```
Write your code in this editor and press "Run"

*****************************************

#include <stdio.h>

int main(){
    int num;
    printf("enter a number: ");
    scanf("%d",&num);

    int i=0;
    int binaryNum[32];
    while(num>0){
        binaryNum[i]=num%2;
        num=num/2;
        i++;
    }
    for (int j=i-1;j>=0;j--){
        printf("%d",binaryNum[j]);
    }
    printf("\n");

    return 0;
}
```

```
enter a number: 5
101


...Program finished with exit code 0
Press ENTER to exit console.
```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{} Beautify
main.c
#include <stdio.h>
#include<string.h>
#include<ctype.h>
int numberOfVowAndCon(char*name,int *vowels,int *consonents){
* vowels=0;
*consonents=0;
for(int i=0;*name !='\0';i++){
char letter= tolower(*name);
if (letter>='a' && letter<='z'){
if (letter=='a' || letter=='e' || letter=='i' || letter=='o' || letter=='u')
(*vowels)++;
else
(*consonents)++;
}
}
}
int main(){
char name[100];
int vowels=0,consonents=0,i;
printf("enter your name:");
fgets(name,sizeof(name),stdin);

Set as default

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main.c

```c
    fgets(name,sizeof(name),stdin);


    char *ptr=name;
    while(*ptr!='\0'){
        if(*ptr=='\n'){
            *ptr='\0';
        }
        ptr++;
    }
    numberOfVowAndCon(name,&vowels,&consonents);

    for(i=0;name[i] !='\0';i++){
        char letter= tolower(name[i]);
        if (letter=='a' || letter=='e' || letter=='i' || letter=='o' || letter=='u')
            vowels++;

        else
            consonents++;
    }
    printf("number of vowels: %d\n",vowels);
    printf("number of consonents: %d\n",consonents);

    return 0;
}
```

```c
#include <stdio.h>
int add(int a, int b);
int subtract(int a, int b);
int multiply(int a, int b);
float divide(int a, int b);

int main() {
    int choice, num1, num2;

        printf("\nMenu:\n");
        printf("1. Addition\n");
        printf("2. Subtraction\n");
        printf("3. Multiplication\n");
        printf("4. Division\n");
        printf("5. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);

        if (choice >= 1 && choice <= 4) {
            printf("Enter two numbers: ");
            scanf("%d %d", &num1, &num2);
        }

        switch (choice) {
```

```c
if (choice >= 1 && choice <= 4) {
    printf("Enter two numbers: ");
    scanf("%d %d", &num1, &num2);
}

switch (choice) {
    case 1:
        printf("Result: %d\n", add(num1, num2));
        break;
    case 2:
        printf("Result: %d\n", subtract(num1, num2));
        break;
    case 3:
        printf("Result: %d\n", multiply(num1, num2));
        break;
    case 4:
        if (num2 != 0)
            printf("Result: %.2f\n", divide(num1, num2));
        else
            printf("Error: Division by zero is not allowed.\n");
        break;
    case 5:
        printf("Exiting program.\n");
```

n.c

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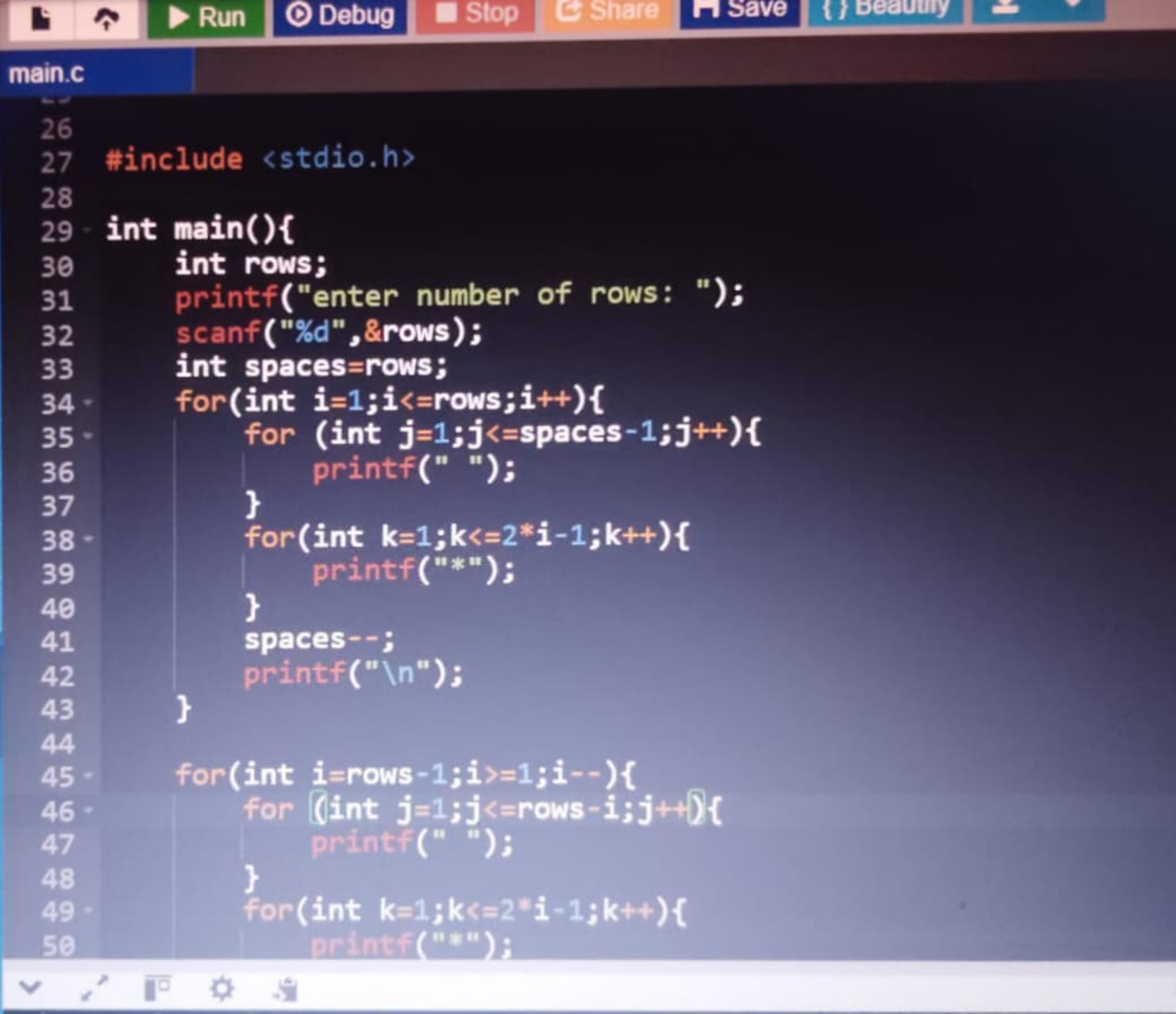
```
            break;
        default:
            printf("Invalid choice. Please try again.\n");
    }


    return 0;
}

int add(int a, int b) {
    return a + b;
}

int subtract(int a, int b) {
    return a - b;
}

int multiply(int a, int b) {
    return a * b;
}

float divide(int a, int b) {
    return (float)a / b;
}
```

```
Menu:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your choice: 2
Enter two numbers: 5 2
Result: 3


=== Code Execution Successful ===
```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main.c
#include <stdio.h>
int main(){
int rows;
printf("enter number of rows: ");
scanf("%d",&rows);
int spaces=rows;
for(int i=1;i<=rows;i++){
for (int j=1;j<=spaces-1;j++){
printf(" ");
}
for(int k=1;k<=2*i-1;k++){
printf("*");
}
spaces--;
printf("\n");
}
for(int i=rows-1;i>=1;i--){
for (int j=1;j<=rows-i;j++){
printf(" ");
}
for(int k=1;k<=2*i-1;k++){
printf("*");

as default

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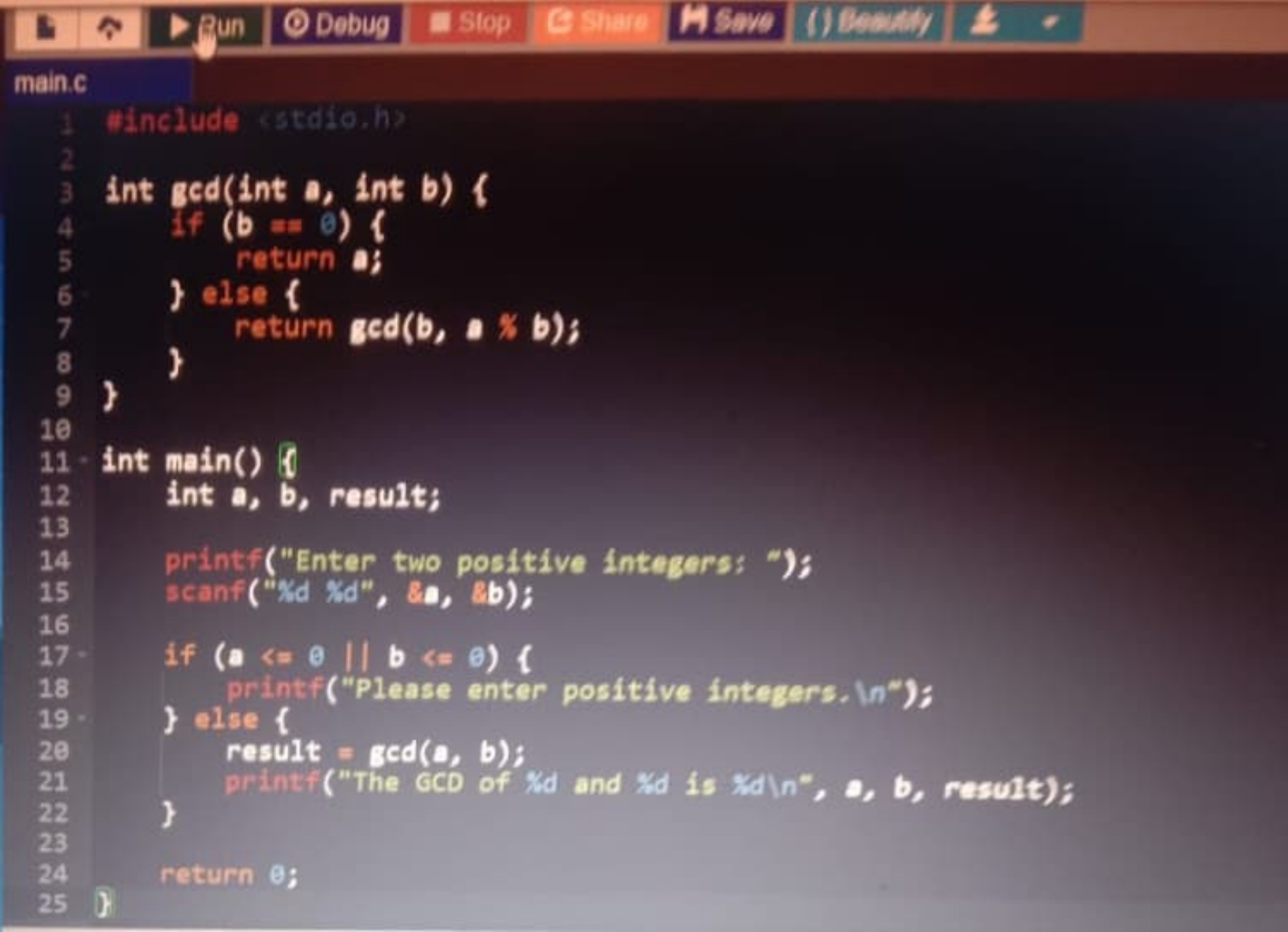
```c
    for(int i=1;i<=rows;i++){
        for (int j=1;j<=spaces-1;j++){
            printf(" ");
        }
        for(int k=1;k<=2*i-1;k++){
            printf("*");
        }
        spaces--;
        printf("\n");
    }

    for(int i=rows-1;i>=1;i--){
        for (int j=1;j<=rows-i;j++){
            printf(" ");
        }
        for(int k=1;k<=2*i-1;k++){
            printf("*");
        }

        printf("\n");
    }


    return 0;
}
```


Run
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{} Beautify
main.c
#include <stdio.h>
int gcd(int a, int b) {
if (b == 0) {
return a;
} else {
return gcd(b, a % b);
}
}
int main() {
int a, b, result;
printf("Enter two positive integers: ");
scanf("%d %d", &a, &b);
if (a <= 0 || b <= 0) {
printf("Please enter positive integers.\n");
} else {
result = gcd(a, b);
printf("The GCD of %d and %d is %d\n", a, b, result);
}
return 0;
}

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main.c

```c

#include <stdio.h>

int main()
{
    char name[100];
    printf("enter any string:");
    fgets(name,sizeof(name),stdin);

    if(name[lengthOfString(name)-1]=='\n'){
        name[lengthOfString(name)-1]=='\0';
    }
    printf("the length of the given string is:%d\n",lengthOfString(name));

    return 0;
}
int lengthOfString(char *name){
    char *ptr=name;
    int length=0;
    while(*ptr!='\0'){
        length++;
        ptr++;
    }
    return length;
}
```