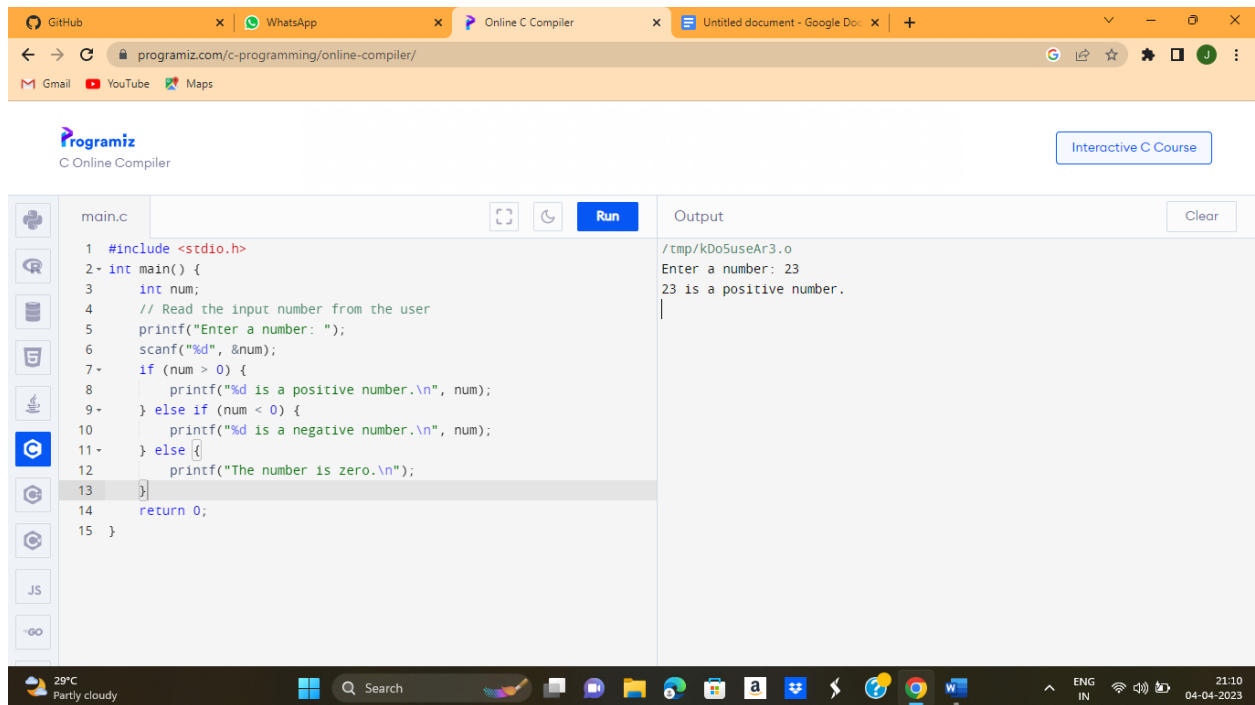


## QNS 1



The screenshot shows the Programiz Online C Compiler interface. The browser tabs include GitHub, WhatsApp, Online C Compiler, and an untitled Google Doc. The address bar shows the URL `programiz.com/c-programming/online-compiler/`. The Programiz logo and "C Online Compiler" text are at the top left, with an "Interactive C Course" button at the top right. The main editor area is titled "main.c" and contains the following C code:

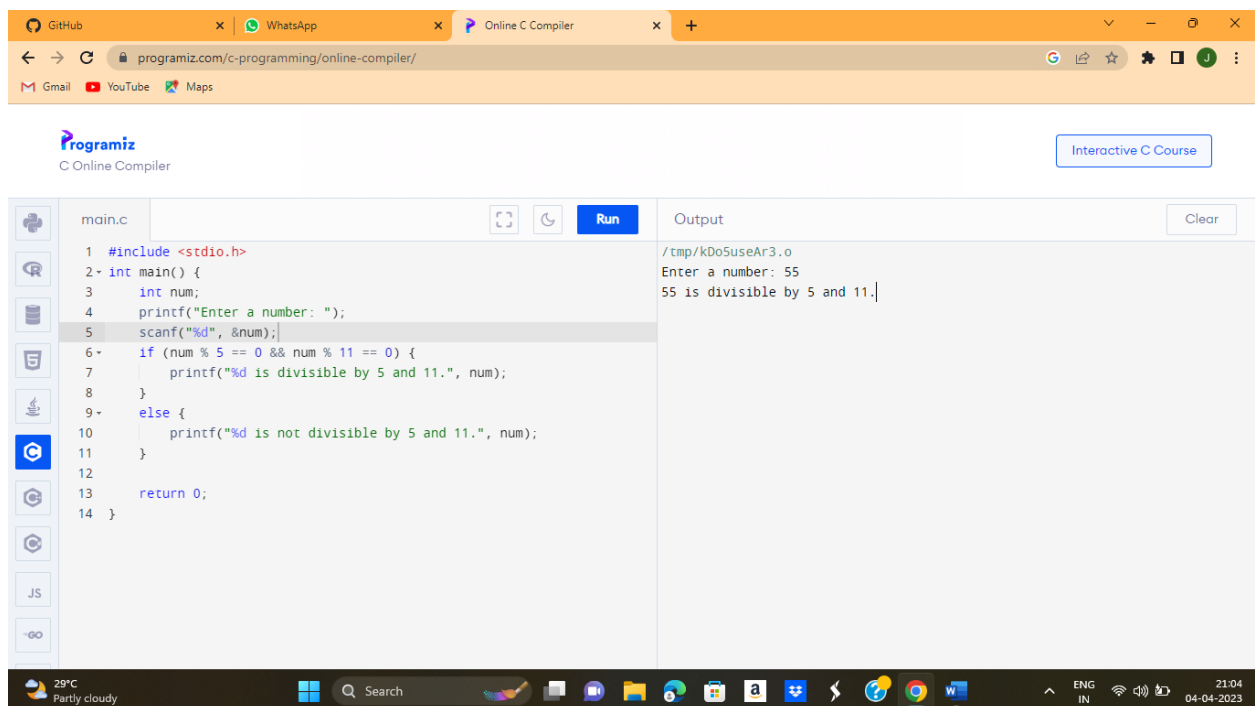
```
1 #include <stdio.h>
2 int main() {
3     int num;
4     // Read the input number from the user
5     printf("Enter a number: ");
6     scanf("%d", &num);
7     if (num > 0) {
8         printf("%d is a positive number.\n", num);
9     } else if (num < 0) {
10        printf("%d is a negative number.\n", num);
11    } else {
12        printf("The number is zero.\n");
13    }
14    return 0;
15 }
```

The "Run" button is highlighted in blue. The "Output" panel on the right shows the execution results:

```
/tmp/kDo5useAr3.o
Enter a number: 23
23 is a positive number.
```

The Windows taskbar at the bottom shows the system clock as 21:10 on 04-04-2023, with a temperature of 29°C and "Partly cloudy" weather.

## QNS 2



The screenshot shows the Programiz Online C Compiler interface. The browser tabs include GitHub, WhatsApp, Online C Compiler, and an untitled Google Doc. The address bar shows the URL `programiz.com/c-programming/online-compiler/`. The Programiz logo and "C Online Compiler" text are at the top left, with an "Interactive C Course" button at the top right. The main editor area is titled "main.c" and contains the following C code:

```
1 #include <stdio.h>
2 int main() {
3     int num;
4     printf("Enter a number: ");
5     scanf("%d", &num);
6     if (num % 5 == 0 && num % 11 == 0) {
7         printf("%d is divisible by 5 and 11.", num);
8     }
9     else {
10        printf("%d is not divisible by 5 and 11.", num);
11    }
12
13    return 0;
14 }
```

The "Run" button is highlighted in blue. The "Output" panel on the right shows the execution results:

```
/tmp/kDo5useAr3.o
Enter a number: 55
55 is divisible by 5 and 11.
```

The Windows taskbar at the bottom shows the system clock as 21:04 on 04-04-2023, with a temperature of 29°C and "Partly cloudy" weather.

### QNS 3

The screenshot shows the Programiz Online C Compiler interface. The code in `main.c` is as follows:

```
1 #include <stdio.h>
2 int main() {
3     char ch;
4     printf("Enter a character: ");
5     scanf("%c", &ch);
6     if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {
7         printf("%c is an alphabet.", ch);
8     }
9     else {
10        printf("%c is not an alphabet.", ch);
11    }
12    return 0;
13 }
```

The output shows the program execution with the input 'a':

```
/tmp/kDo5useAr3.o
Enter a character: a
a is an alphabet.
```

### QNS 4

The screenshot shows the Programiz Online C Compiler interface. The code in `main.c` is as follows:

```
1 #include <stdio.h>
2 #include <string.h>
3 int main()
4 {
5     char str[100];
6     int vowels = 0, i;
7     printf("Enter a string: ");
8     fgets(str, sizeof(str), stdin);
9     for(i = 0; i < strlen(str); i++)
10    {
11        if(str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i]
12           == 'o' || str[i] == 'u' || str[i] == 'A' || str[i] == 'E'
13           || str[i] == 'I' || str[i] == 'O' || str[i] == 'U')
14            vowels++;
15    }
16    printf("Number of vowels in the string: %d", vowels);
17    return 0;
18 }
```

The output shows the program execution with the input 'insta':

```
/tmp/e8oUgEWiTP.o
Enter a string: insta
Number of vowels in the string: 4
```

### QNS 5

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main.c

```
1 #include <stdio.h>
2 int main() {
3     char ch;
4     printf("Enter a character: ");
5     scanf("%c", &ch);
6     if(ch >= 'A' && ch <= 'Z')
7         printf("%c is an uppercase alphabet.", ch);
8     else if(ch >= 'a' && ch <= 'z')
9         printf("%c is a lowercase alphabet.", ch);
10    else
11        printf("%c is not an alphabet.", ch);
12    return 0;
13 }
```

Output

```
/tmp/e80UgEWiTP.o
Enter a character: C
C is an uppercase alphabet.
```

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QNS 6

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main.c

```
1 #include <stdio.h>
2 int main() {
3     int amount, notes500, notes100, notes50, notes20, notes10, notes5,
4       notes2, notes1;
5     printf("Enter the amount: ");
6     scanf("%d", &amount);
7     notes500 = amount / 500;
8     amount = amount % 500;
9     notes100 = amount / 100;
10    amount = amount % 100;
11    notes50 = amount / 50;
12    amount = amount % 50;
13    notes20 = amount / 20;
14    amount = amount % 20;
15    notes10 = amount / 10;
16    amount = amount % 10;
17    notes5 = amount / 5;
18    amount = amount % 5;
19    notes2 = amount / 2;
20    amount = amount % 2;
21    notes1 = amount;
```

Output

```
/tmp/e80UgEWiTP.o
Enter the amount: 575
Minimum number of notes required:
Rs. 500 = 1
Rs. 100 = 0
Rs. 50 = 1
Rs. 20 = 1
Rs. 10 = 0
Rs. 5 = 1
Rs. 2 = 0
Rs. 1 = 0
```

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QNS 7

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```
main.c
1 #include <stdio.h>
2
3 int main() {
4     int num, count = 0;
5
6     printf("Enter an integer: ");
7     scanf("%d", &num);
8
9     while(num != 0) {
10         count++;
11         num /= 10;
12     }
13
14     printf("Number of digits in the integer: %d", count);
15
16     return 0;
17 }
```

Output

```
/tmp/e8oUgEWiTP.o
Enter an integer: 35419
Number of digits in the integer: 5
```

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QNS 8

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```
main.c
1 #include <stdio.h>
2 int main() {
3     int number, digit, sum = 0;
4     printf("Enter a number: ");
5     scanf("%d", &number);
6     while(number > 0) {
7         digit = number % 10;
8         sum += digit;
9         number /= 10;
10    }
11    printf("Sum of digits: %d", sum);
12    return 0;
13 }
```

Output

```
/tmp/e8oUgEWiTP.o
Enter a number: 1234
Sum of digits: 10
```

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QNS 9

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```
main.c
1 #include <stdio.h>
2 int main() {
3     int number, reverse = 0, remainder;
4     printf("Enter a number: ");
5     scanf("%d", &number);
6     while (number != 0) {
7         remainder = number % 10;
8         reverse = reverse * 10 + remainder;
9         number /= 10;
10    }
11    printf("Reverse of the number: %d", reverse);
12    return 0;
13 }
```

Output

```
/tmp/e8oUgEWiTP.o
Enter a number: 12345
Reverse of the number: 54321
```

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## QNS 10

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```
main.c
1 #include <stdio.h>
2 int main() {
3     int decimal, binary[32], i=0, j;
4     printf("Enter a decimal number: ");
5     scanf("%d", &decimal);
6     while(decimal > 0) {
7         binary[i] = decimal % 2;
8         decimal /= 2;
9         i++;
10    }
11    printf("Binary equivalent: ");
12    for(j=i-1; j>=0; j--)
13        printf("%d", binary[j]);
14    return 0;
15 }
```

Output

```
/tmp/e8oUgEWiTP.o
Enter a decimal number: 112
Binary equivalent: 1110000
```

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