

Ques1 Write a program to find greatest between two numbers.

Code:

```
def find_greatest(num1, num2):  
    if num1 > num2:  
        return num1  
    else:  
        return num2
```

Example usage:

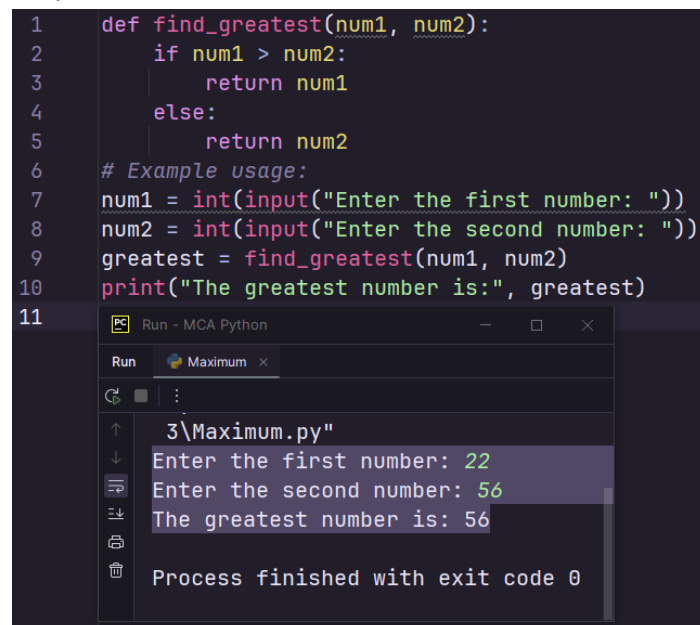
```
num1 = int(input("Enter the first number: "))  
num2 = int(input("Enter the second number: "))
```

```
greatest = find_greatest(num1, num2)  
print("The greatest number is:", greatest)
```

Output:

```
Enter the first number: 22  
Enter the second number: 56  
The greatest number is: 56
```

Snap:



The screenshot shows a Python IDE with a dark theme. The editor window displays the code for finding the greatest number, including the function definition and example usage. The output window shows the execution results: 'Enter the first number: 22', 'Enter the second number: 56', and 'The greatest number is: 56'. The process finished with exit code 0.

```
1 def find_greatest(num1, num2):  
2     if num1 > num2:  
3         return num1  
4     else:  
5         return num2  
6  
7 # Example usage:  
8 num1 = int(input("Enter the first number: "))  
9 num2 = int(input("Enter the second number: "))  
10 greatest = find_greatest(num1, num2)  
11 print("The greatest number is:", greatest)
```

Run - MCA Python

Run Maximum

3\Maximum.py"

Enter the first number: 22
Enter the second number: 56
The greatest number is: 56

Process finished with exit code 0

Ques-2 Write a program to Accept two Integers and Check if they are Equal

Code:

Accept two integers from the user

```
num1 = int(input("Enter the first number: "))  
num2 = int(input("Enter the second number: "))
```

Check if the numbers are equal

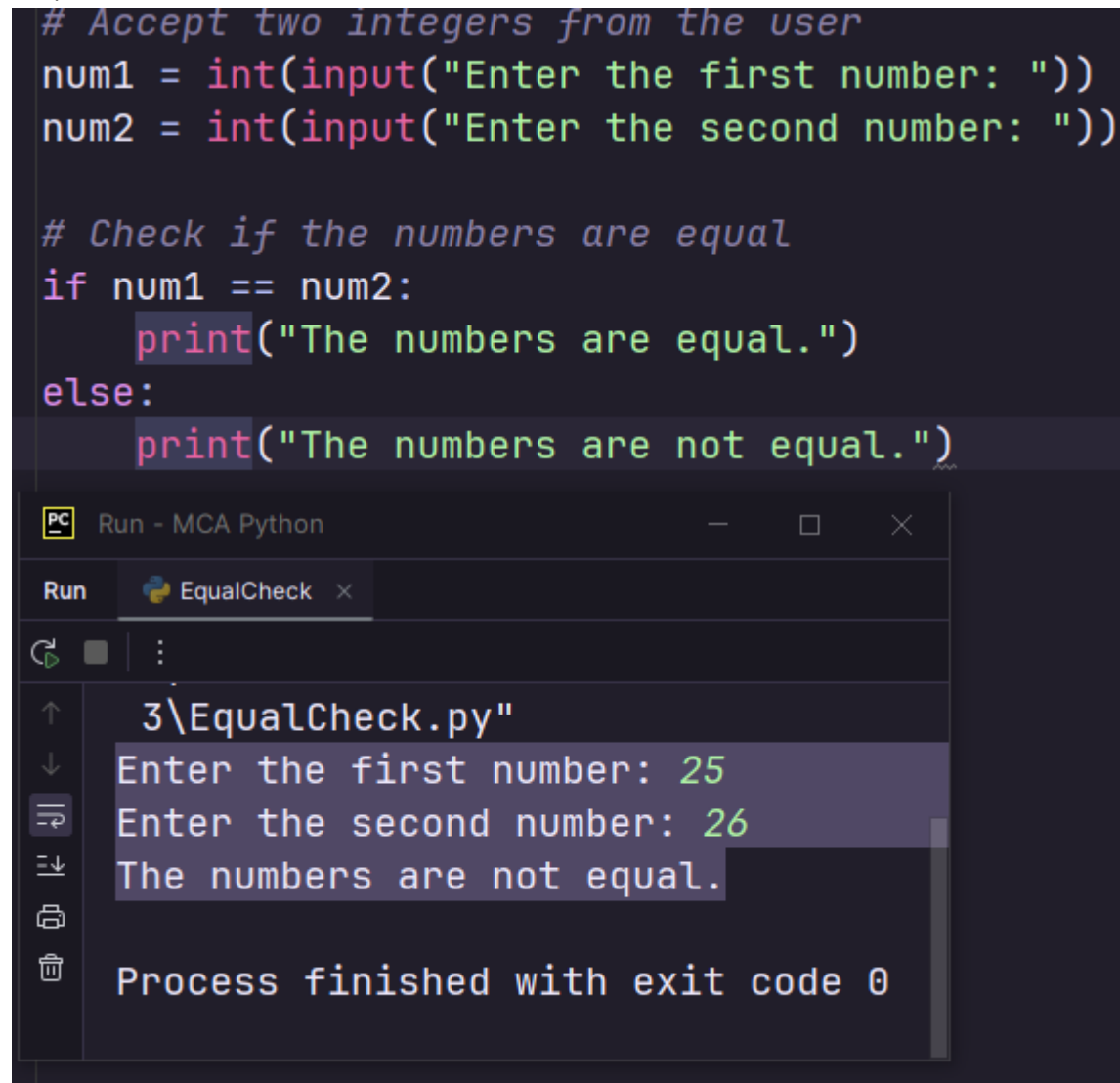
```
if num1 == num2:
```

```
    print("The numbers are equal.")
else:
    print("The numbers are not equal.")
```

Output:

Enter the first number: 25
Enter the second number: 26
The numbers are not equal.

Snap:



The screenshot shows a Python IDE window titled 'Run - MCA Python'. The code editor contains the following Python code:

```
# Accept two integers from the user
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))

# Check if the numbers are equal
if num1 == num2:
    print("The numbers are equal.")
else:
    print("The numbers are not equal.")
```

Below the code editor, the 'Run' button is visible. The output console shows the execution results:

```
3\EqualCheck.py"
Enter the first number: 25
Enter the second number: 26
The numbers are not equal.

Process finished with exit code 0
```

Ques-3 Write a program to Check if a given Integer is Positive or Negative.

Code:

```
# Accept an integer from the user
num = int(input("Enter an integer: "))

# Check if the number is positive or negative
if num > 0:
    print("The number is positive.")
```

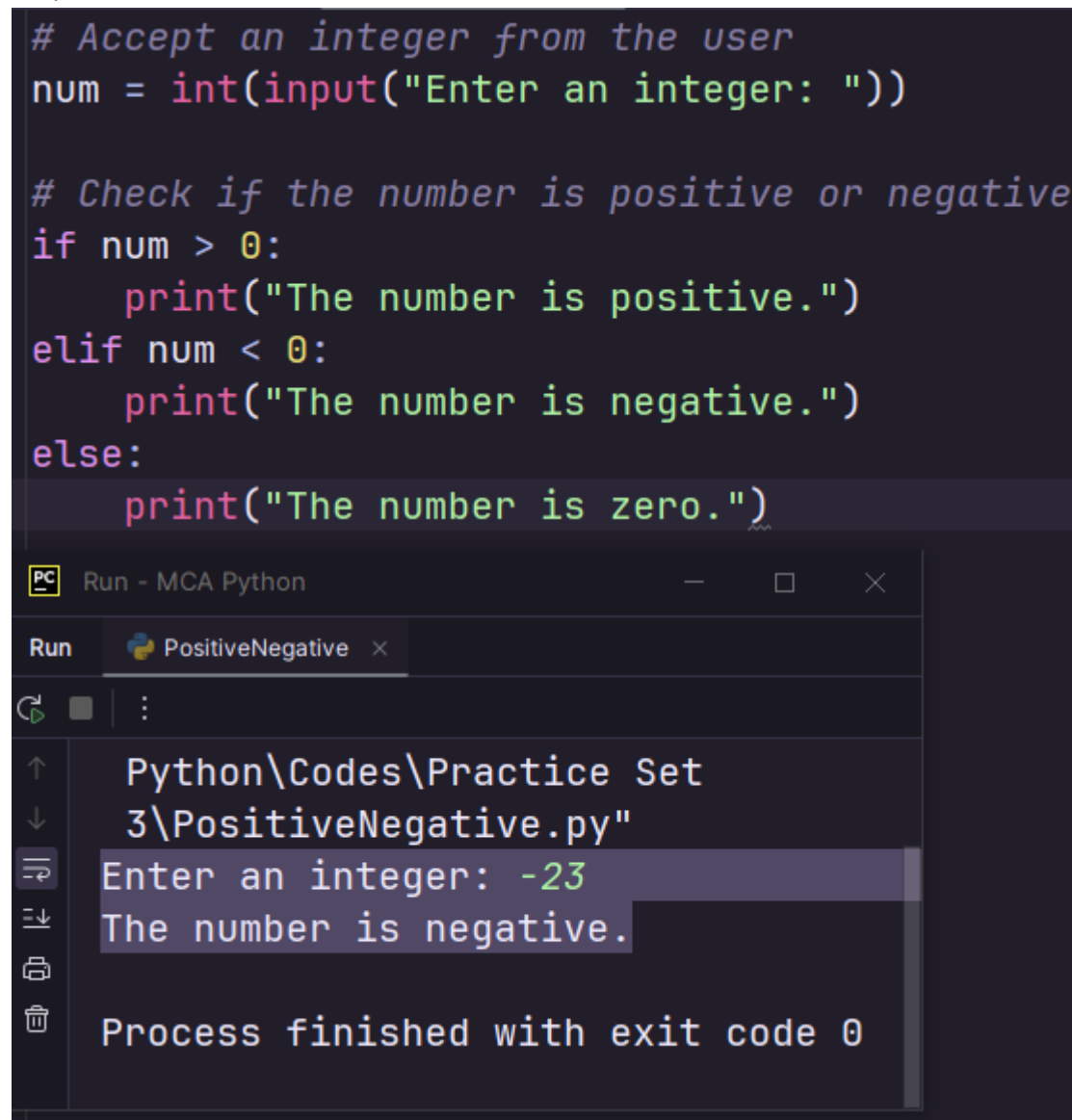
```
elif num < 0:  
    print("The number is negative.")  
else:  
    print("The number is zero.")
```

Output:

Enter an integer: -23

The number is negative.

Snap:



```
# Accept an integer from the user  
num = int(input("Enter an integer: "))  
  
# Check if the number is positive or negative  
if num > 0:  
    print("The number is positive.")  
elif num < 0:  
    print("The number is negative.")  
else:  
    print("The number is zero.")
```

Run - MCA Python

Run PositiveNegative x

Python\Codes\Practice Set 3\PositiveNegative.py

Enter an integer: -23

The number is negative.

Process finished with exit code 0

Ques-4 Write a program to Check if a given Integer is Odd or Even

Code:

```
# Accept an integer from the user  
num = int(input("Enter an integer: "))
```

```
# Check if the number is odd or even  
if num % 2 == 0:
```

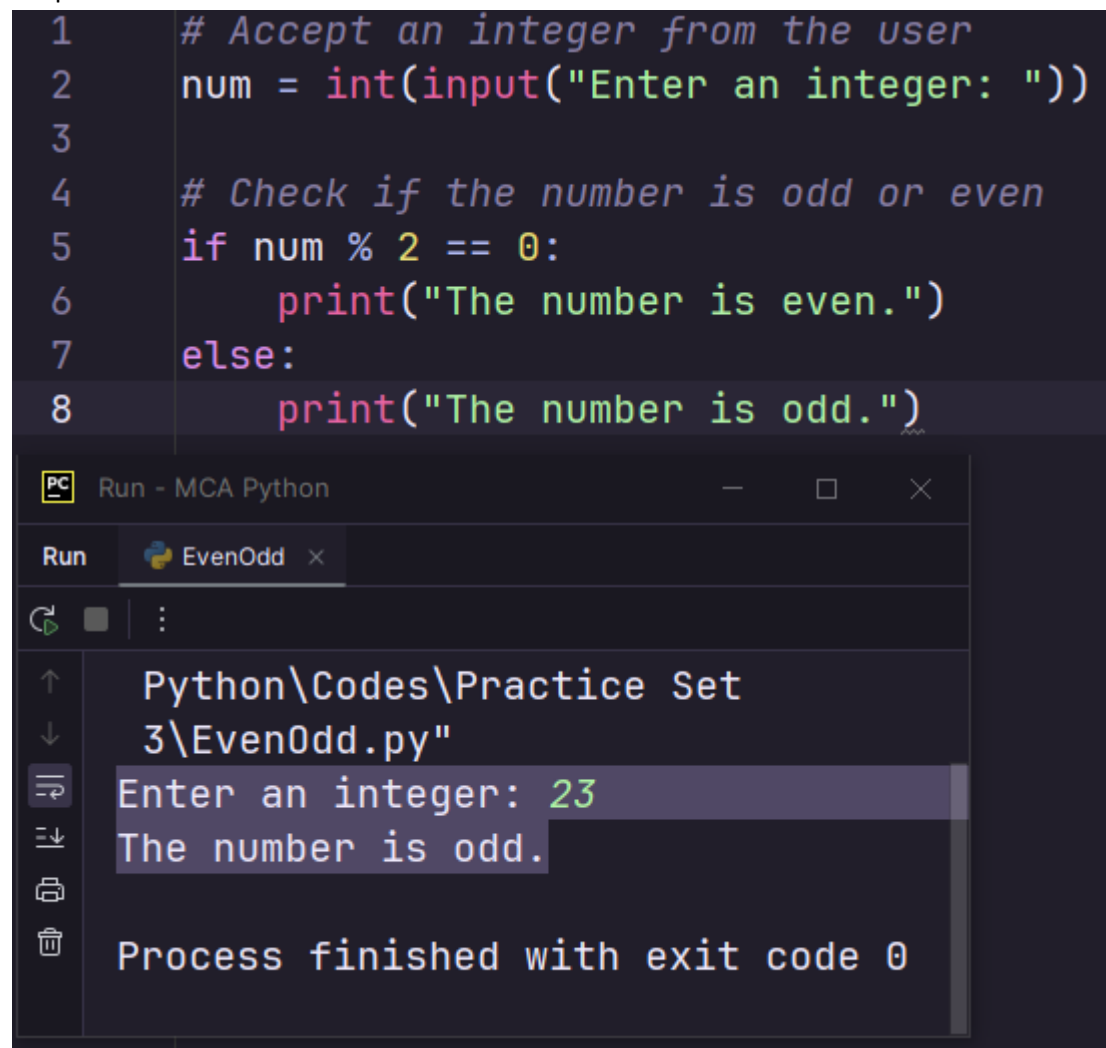
```
    print("The number is even.")
else:
    print("The number is odd.")
```

Output:

Enter an integer: 23

The number is odd.

Snap:



```
1  # Accept an integer from the user
2  num = int(input("Enter an integer: "))
3
4  # Check if the number is odd or even
5  if num % 2 == 0:
6      print("The number is even.")
7  else:
8      print("The number is odd.")
```

Run - MCA Python

Run EvenOdd x

Python\Codes\Practice Set
3\EvenOdd.py"

Enter an integer: 23
The number is odd.

Process finished with exit code 0

5. Write a program to Check if a given Integer is Divisible by 5 or not.

Code:

```
# Accept an integer from the user
num = int(input("Enter an integer: "))

# Check if the number is divisible by 5
if num % 5 == 0:
    print("The number is divisible by 5.")
```

else:

```
print("The number is not divisible by 5.")
```

Output:

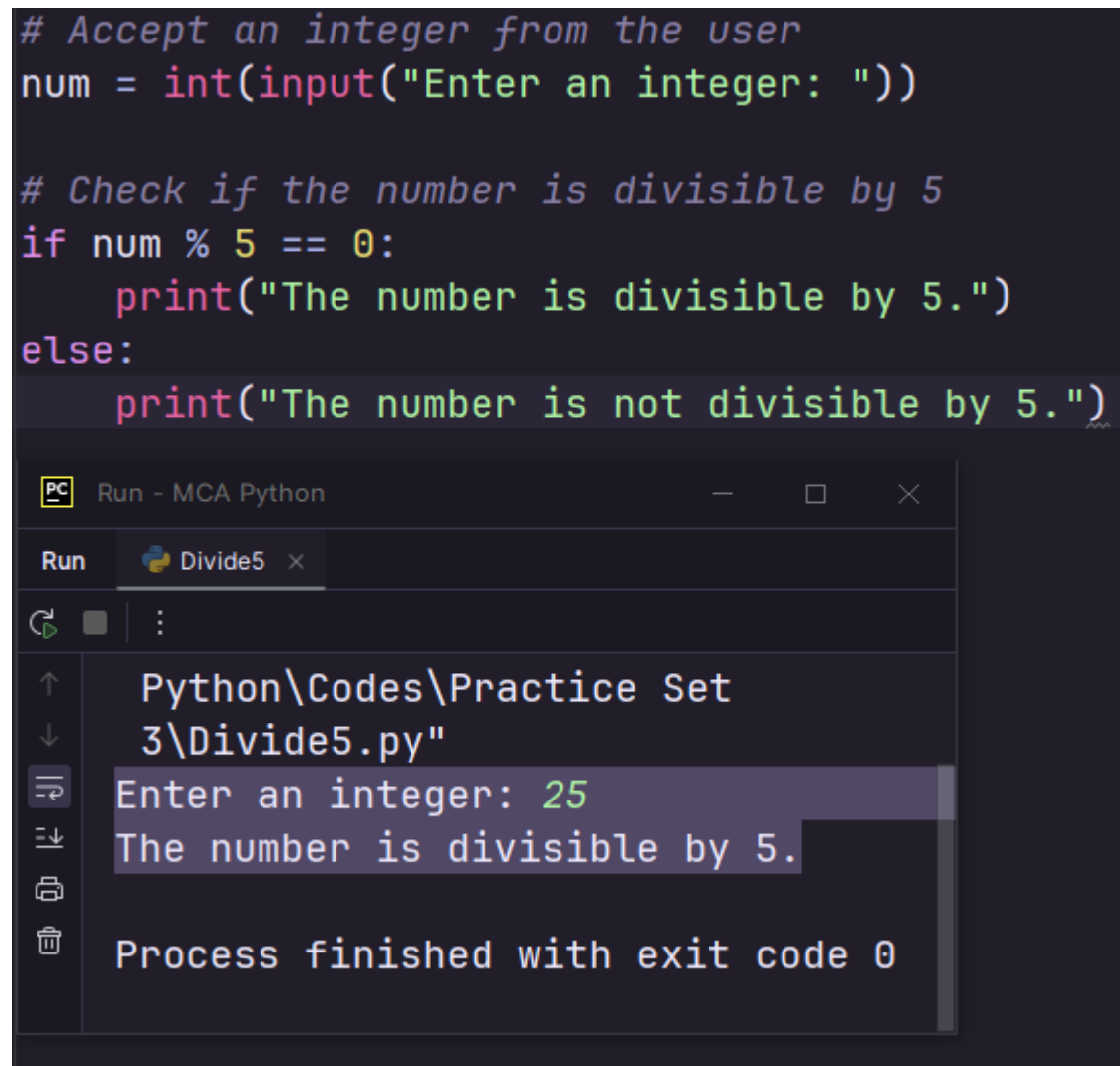
Enter an integer: 25

The number is divisible by 5.

Snap;

```
# Accept an integer from the user
num = int(input("Enter an integer: "))

# Check if the number is divisible by 5
if num % 5 == 0:
    print("The number is divisible by 5.")
else:
    print("The number is not divisible by 5.")
```



Run - MCA Python

Run Divide5 x

Python\Codes\Practice Set
3\Divide5.py

Enter an integer: 25
The number is divisible by 5.

Process finished with exit code 0

6. Write a program to Check if a given Integer is Divisible by 7 or not.

Code:

```
# Accept an integer from the user
```

```
num = int(input("Enter an integer: "))
```

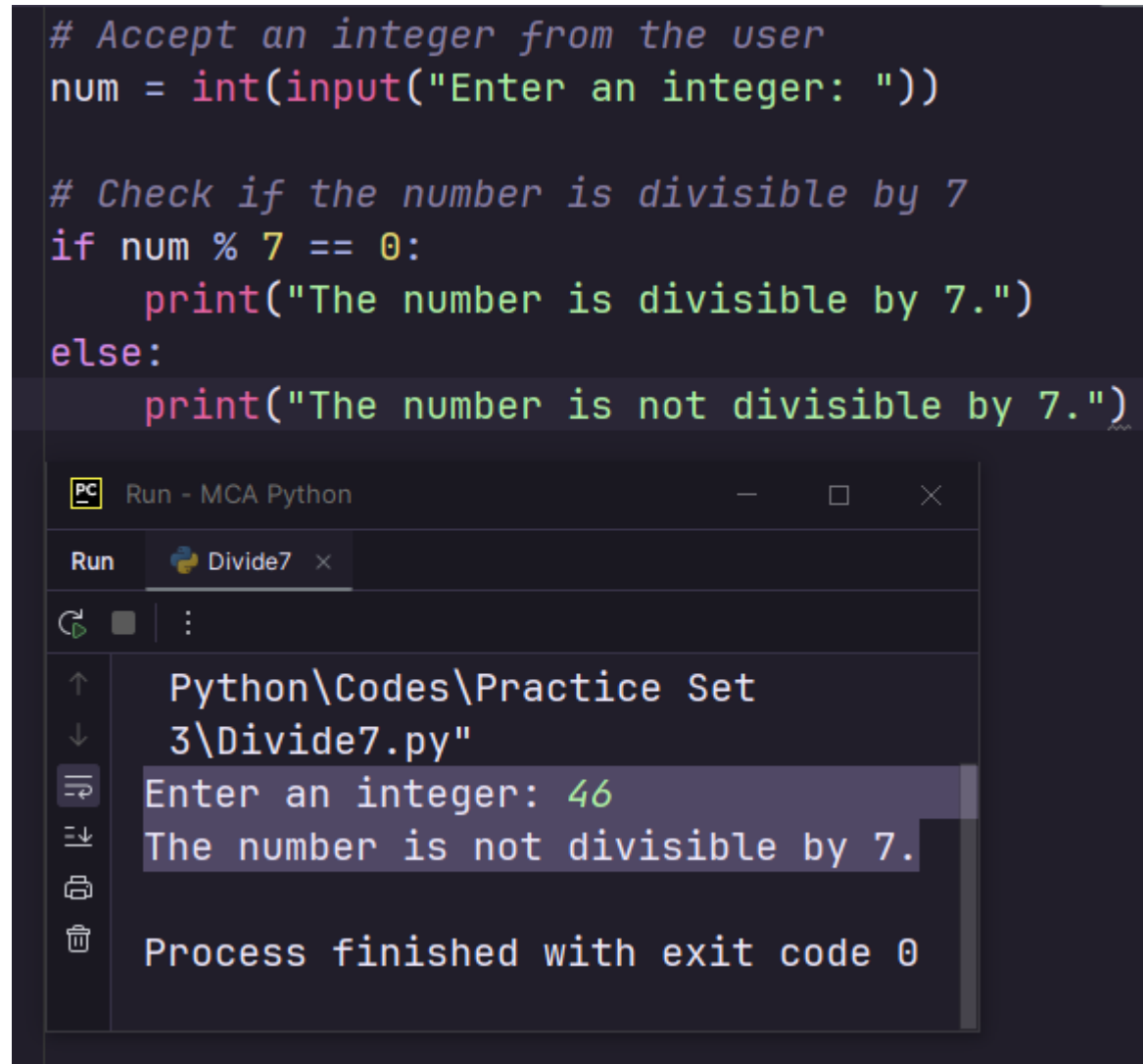
```
# Check if the number is divisible by 7
if num % 7 == 0:
    print("The number is divisible by 7.")
else:
    print("The number is not divisible by 7.")
```

Ouput:

Enter an integer: 46

The number is not divisible by 7.

Snap:



The screenshot shows a Python IDE window titled "Run - MCA Python". The code editor contains the following Python code:

```
# Accept an integer from the user
num = int(input("Enter an integer: "))

# Check if the number is divisible by 7
if num % 7 == 0:
    print("The number is divisible by 7.")
else:
    print("The number is not divisible by 7.")
```

Below the code editor, the "Run" button is visible. The output console shows the following text:

```
Python\Codes\Practice Set
3\Divide7.py"
Enter an integer: 46
The number is not divisible by 7.
Process finished with exit code 0
```

8. Write a program to find the greatest of three numbers using else if ladder.

Code:

```
# Accept three integers from the user
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
num3 = int(input("Enter the third number: "))

# Find the greatest number using an else if ladder
if num1 > num2 and num1 > num3:
    greatest = num1
elif num2 > num1 and num2 > num3:
    greatest = num2
else:
    greatest = num3

# Print the greatest number
print("The greatest number is:", greatest)
```

Output:

```
Enter the first number: 23
Enter the second number: 35
Enter the third number: 22
The greatest number is: 35
```

Snap:

```
1  # Accept three integers from the user
2  num1 = int(input("Enter the first number: "))
3  num2 = int(input("Enter the second number: "))
4  num3 = int(input("Enter the third number: "))
5
6  # Find the greatest number using an else if ladder
7  if num1 > num2 and num1 > num3:
8      greatest = num1
9  elif num2 > num1 and num2 > num3:
10     greatest = num2
11 else:
12     greatest = num3
13
14 # Print the greatest number
15 print("The greatest number is:", greatest)
```

Run - MCA Python

Run ElselfLadder x

3\ElseIfLadder.py"

Enter the first number: 23

Enter the second number: 35

Enter the third number: 22

The greatest number is: 35

9. Write a program to find the greatest of three numbers using Nested if.

Code:

Accept three integers from the user

num1 = int(input("Enter the first number: "))

num2 = int(input("Enter the second number: "))

num3 = int(input("Enter the third number: "))

Find the greatest number using a nested if statement

if num1 >= num2:

if num1 >= num3:


```
    greatest = num1
else:
    greatest = num3
else:
    if num2 >= num3:
        greatest = num2
    else:
        greatest = num3
```

```
# Print the greatest number
print("The greatest number is:", greatest)
```

Output:

```
Enter the first number: 25
Enter the second number: 12
Enter the third number: 16
The greatest number is: 25
```

Snap:

```

1  # Accept three integers from the user
2  num1 = int(input("Enter the first number: "))
3  num2 = int(input("Enter the second number: "))
4  num3 = int(input("Enter the third number: "))
5
6  # Find the greatest number using a nested if statement
7  if num1 >= num2:
8      if num1 >= num3:
9          greatest = num1
10     else:
11         greatest = num3
12 else:
13     if num2 >= num3:
14         greatest = num2
15     else:
16         greatest = num3
17
18 # Print the greatest number
19 print("The greatest number is:", greatest)

```

The screenshot shows a Python IDE window titled "Run - MCA Python". The code is being executed, and the output is displayed in a console window. The output shows the prompts for the three numbers and the final result.

```

Enter the first number: 25
Enter the second number: 12
Enter the third number: 16
The greatest number is: 25
Process finished with exit

```

10. Write a program to convert an Upper case character into lower case and vice-versa.

Code:

```

# Accept a character from the user
char = input("Enter a character: ")

```

```

# Convert the character to lowercase or uppercase depending on its case

```

```

if char.islower():

```

```

    new_char = char.upper()

```

```

else:

```

```

    new_char = char.lower()

```

Print the new character

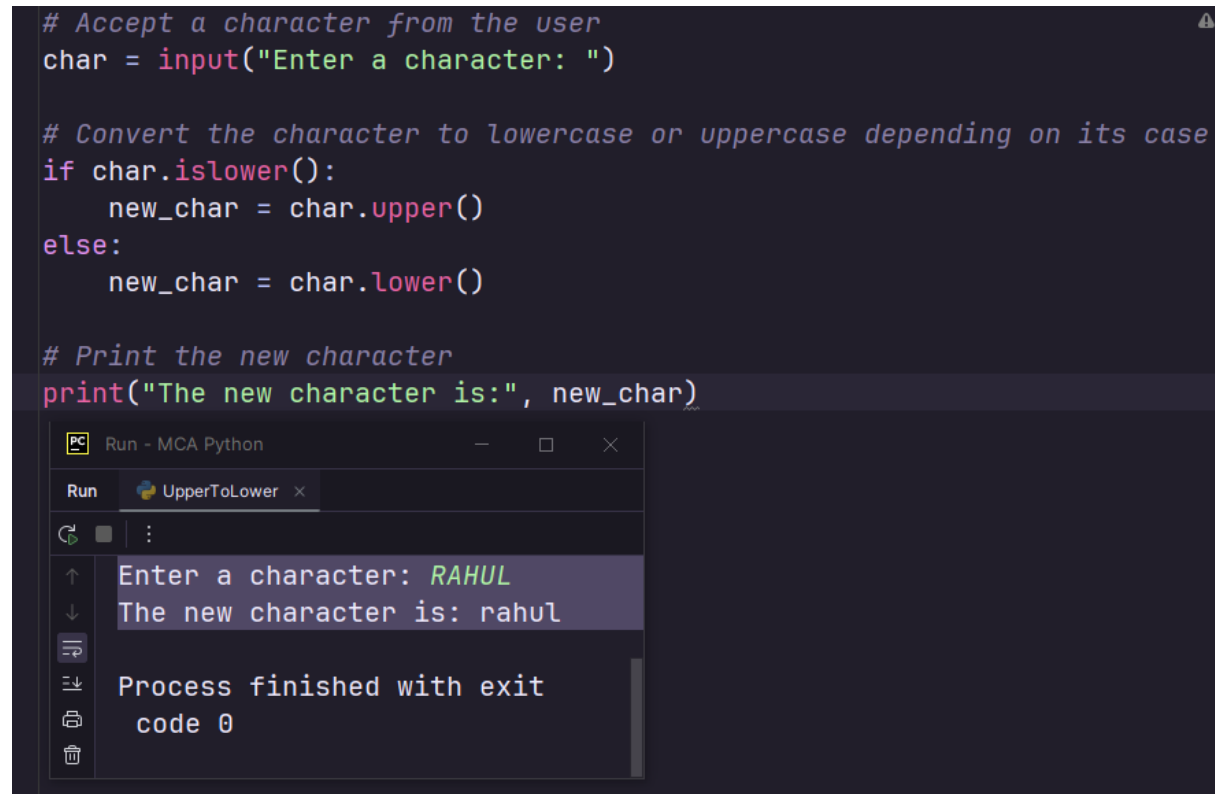
```
print("The new character is:", new_char)
```

Output:

Enter a character: RAHUL

The new character is: rahul

Snap:



The screenshot shows a Python IDE with a dark theme. The main editor displays the following code:

```
# Accept a character from the user
char = input("Enter a character: ")

# Convert the character to lowercase or uppercase depending on its case
if char.islower():
    new_char = char.upper()
else:
    new_char = char.lower()

# Print the new character
print("The new character is:", new_char)
```

Below the editor is a 'Run' window titled 'Run - MCA Python'. It shows the execution of the 'UpperToLower' script. The input 'Enter a character: RAHUL' is shown, followed by the output 'The new character is: rahul'. The window also indicates 'Process finished with exit code 0'.