

LAB 05

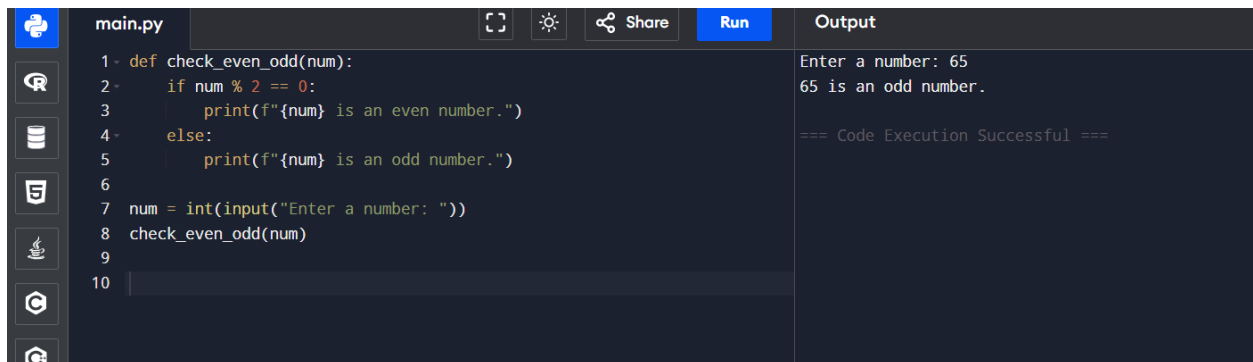
Q. Write a program that checks if a given number is positive, negative or zero.



```
main.py  [Full Screen] [Settings] [Share] [Run] Output
1- def check_number(num):
2-     if num > 0:
3-         print(f"{num} is a positive number.")
4-     elif num < 0:
5-         print(f"{num} is a negative number.")
6-     else:
7-         print(f"{num} is zero.")
8-
9- num = float(input("Enter a number: "))
10 check_number(num)
11
```

Enter a number: 34
34.0 is a positive number.
=== Code Execution Successful ===

Q. Write a program that takes user input & determines whether it's an even or odd.



```
main.py  [Full Screen] [Settings] [Share] [Run] Output
1- def check_even_odd(num):
2-     if num % 2 == 0:
3-         print(f"{num} is an even number.")
4-     else:
5-         print(f"{num} is an odd number.")
6-
7- num = int(input("Enter a number: "))
8- check_even_odd(num)
9-
10
```

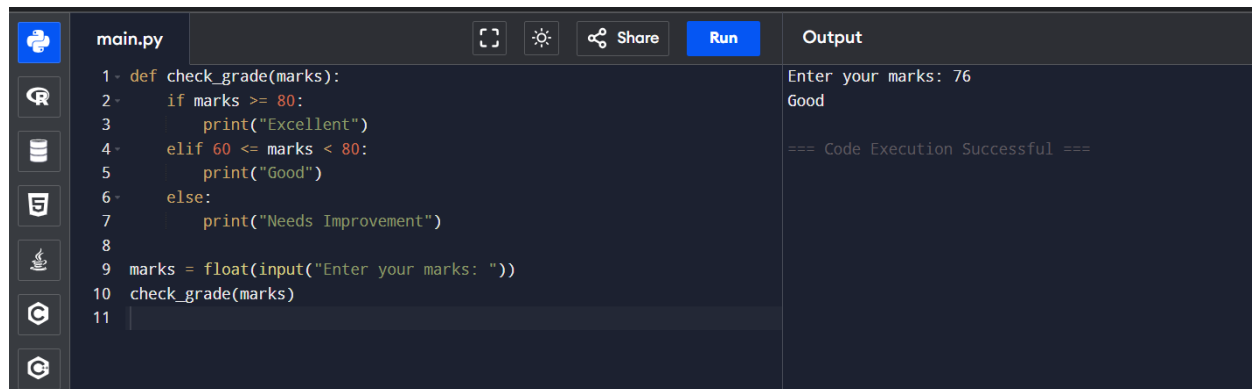
Enter a number: 65
65 is an odd number.
=== Code Execution Successful ===

Q. Create a program that takes asks user to print

“excellent” if marks are above 80

“good” if marks are between 60 to 80

“needs improvement” if marks are below 60.



The screenshot shows a Jupyter Notebook interface with a dark theme. The left sidebar contains icons for file explorer, search, and other notebook functions. The main area is divided into two sections: a code editor and an output area. The code editor shows a Python script named `main.py` with the following content:

```
1- def check_grade(marks):  
2-     if marks >= 80:  
3-         print("Excellent")  
4-     elif 60 <= marks < 80:  
5-         print("Good")  
6-     else:  
7-         print("Needs Improvement")  
8-  
9 marks = float(input("Enter your marks: "))  
10 check_grade(marks)  
11
```

The output area on the right shows the results of running the code. It displays the prompt "Enter your marks: 76" followed by the output "Good". Below this, it shows the message "=== Code Execution Successful ===".