

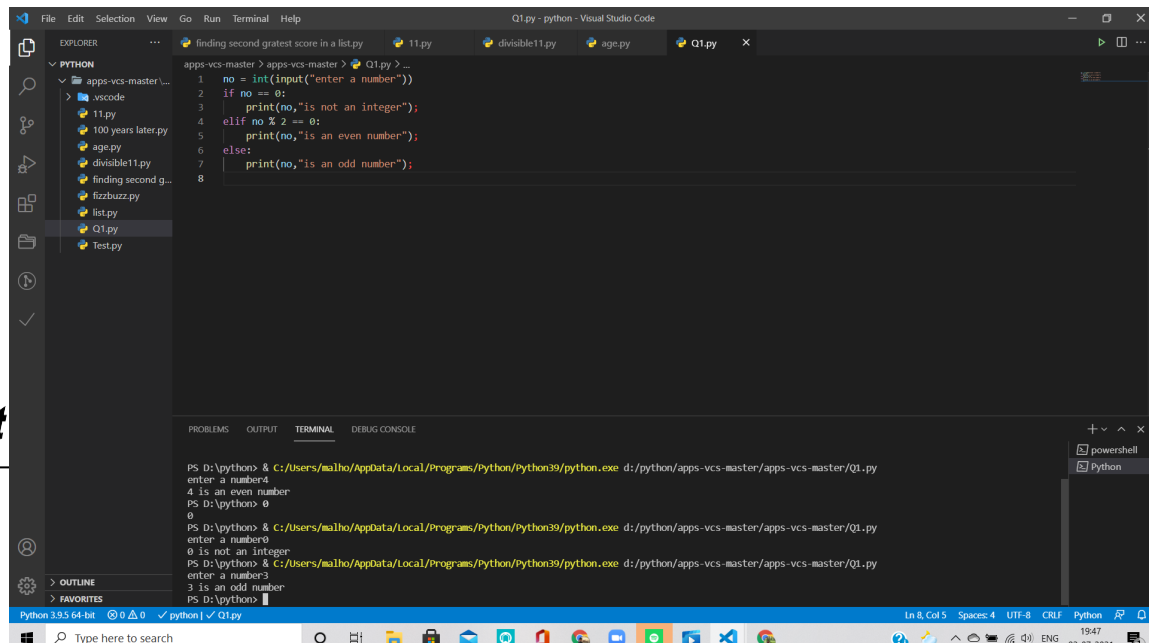
## WORKSHEET 2

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CLASS: 7B

### if...else Programs

Q1. WAP to accept a number from user and check whether it is odd or even.



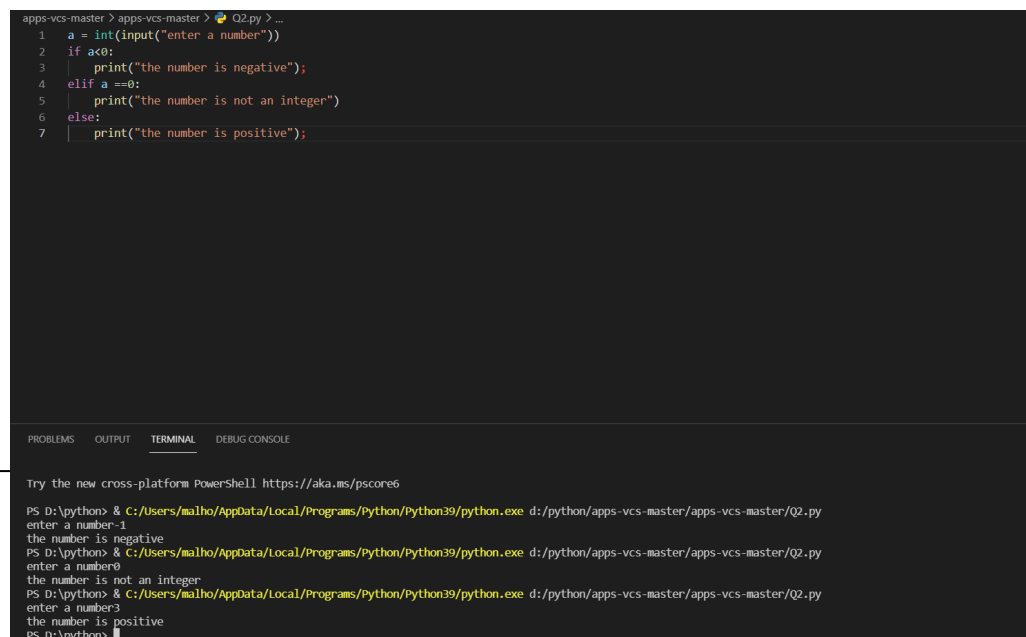
The screenshot shows a Visual Studio Code window with a file explorer on the left containing several Python files. The main editor displays the code for Q1.py, which prompts the user to enter a number and checks if it is even or odd. The terminal at the bottom shows the execution of the program with three test cases: an even number (4), a non-integer (0), and an odd number (3).

```
1 no = int(input("enter a number"))
2 if no == 0:
3     print(no,"is not an integer");
4 elif no % 2 == 0:
5     print(no,"is an even number");
6 else:
7     print(no,"is an odd number");
8
```

Terminal Output:

```
PS D:\python> & C:/Users/malho/AppData/Local/Programs/Python/Python39/python.exe d:/python/apps-vcs-master/apps-vcs-master/Q1.py
enter a number4
4 is an even number
PS D:\python> 0
0 is not an integer
PS D:\python> & C:/Users/malho/AppData/Local/Programs/Python/Python39/python.exe d:/python/apps-vcs-master/apps-vcs-master/Q1.py
enter a number3
3 is an odd number
PS D:\python>
```

Q2. WAP to accept a number from user and check whether it is Positive or Negative.



The screenshot shows a Visual Studio Code window with the code for Q2.py, which prompts the user to enter a number and checks if it is positive or negative. The terminal at the bottom shows the execution of the program with three test cases: a negative number (-1), a non-integer (0), and a positive number (3).

```
1 a = int(input("enter a number"))
2 if a<0:
3     print("the number is negative");
4 elif a ==0:
5     print("the number is not an integer")
6 else:
7     print("the number is positive");
```

Terminal Output:

```
PS D:\python> & C:/Users/malho/AppData/Local/Programs/Python/Python39/python.exe d:/python/apps-vcs-master/apps-vcs-master/Q2.py
enter a number-1
the number is negative
PS D:\python> & C:/Users/malho/AppData/Local/Programs/Python/Python39/python.exe d:/python/apps-vcs-master/apps-vcs-master/Q2.py
enter a number0
the number is not an integer
PS D:\python> & C:/Users/malho/AppData/Local/Programs/Python/Python39/python.exe d:/python/apps-vcs-master/apps-vcs-master/Q2.py
enter a number3
the number is positive
PS D:\python>
```

Q3. WAP to accept user's name and age. Check whether he/she is eligible to vote or not

**Output**

```
Q3.py > ...
1 a = int(input("enter your age"))
2 if a < 18:
3     print(" you cannot vote");
4 else:
5     print("you can vote");
6

PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

windows PowerShell
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PS D:\python> & C:/Users/malho/AppData/Local/Programs/Python/Python39/python.exe d:/python/Q3.py
enter your age12
you cannot vote
PS D:\python> & C:/Users/malho/AppData/Local/Programs/Python/Python39/python.exe d:/python/Q3.py
enter your age42
you can vote
PS D:\python> |
```

Q4. WAP to accept author of Harry Potter series from user. If user enters correct name, it should display 'correct answer' otherwise display 'incorrect answer, try again'

**Output**

```
Q4.py - python - Visual Studio Code
1 Ans = input("Enter The name of Harry Poters author")
2 if Ans== "JK Rowling";
3     print("correct");
4 else:
5     print("wrong try again");

PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

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PS D:\python> & C:/Users/malho/AppData/Local/Programs/Python/Python39/python.exe d:/python/Q4.py
Enter the name of Harry Poters authorJK Rowling
correct
PS D:\python> & C:/Users/malho/AppData/Local/Programs/Python/Python39/python.exe d:/python/Q4.py
Enter the name of Harry Poters authorbc
wrong try again
PS D:\python> |
```