

Artificial Intelligence



Lab 03

Name: Hajira Imran

Sap ID: 44594

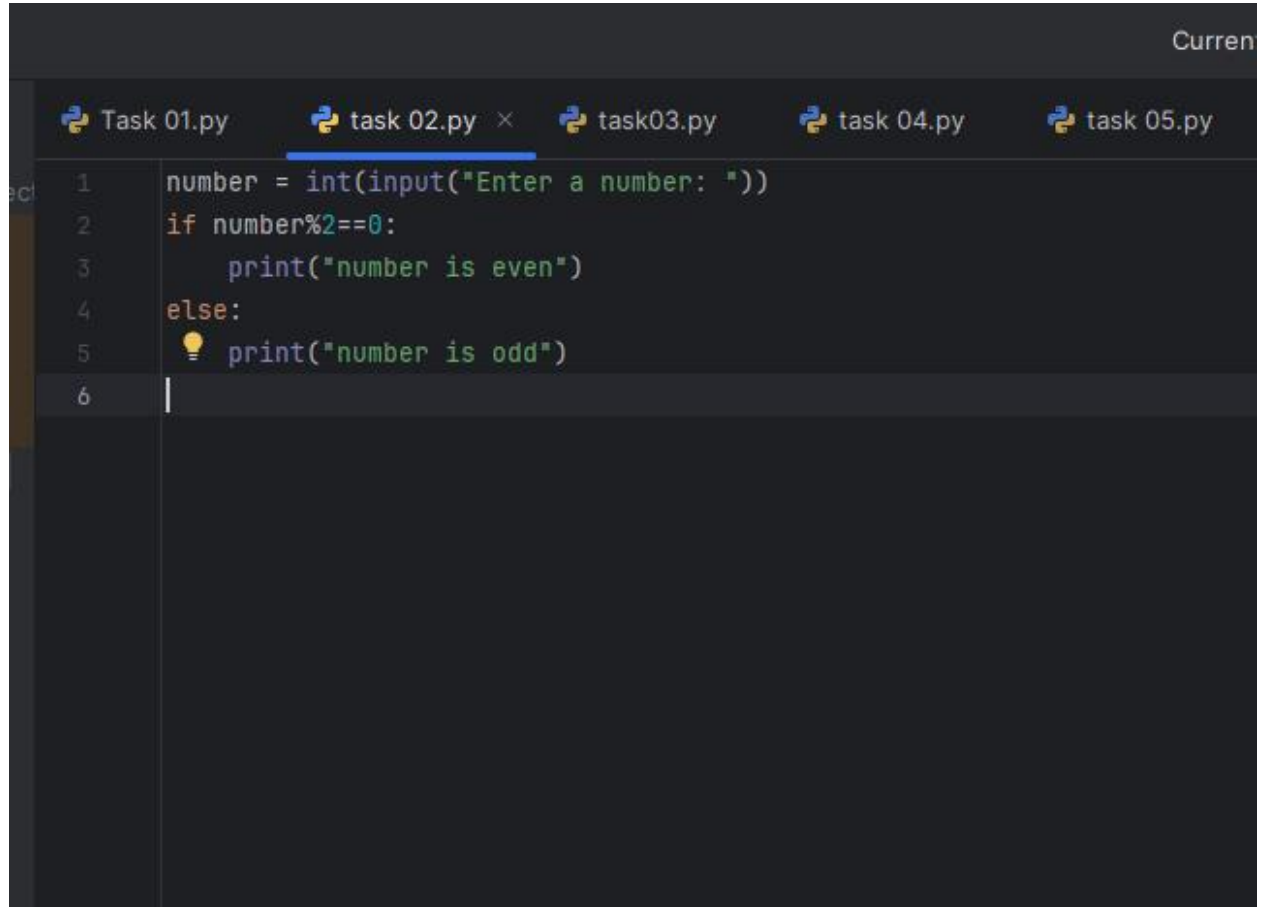
Submitted to: Ma'am Ayesha Akram

Batch: BSCS-6th semester

Task 01

```
Task 01.py × task 02.py task03.py task 04.py tas
1 number = int(input("Enter a number: "))
2 if -10 < number < 10:
3     print("The number is a single-digit number.")
4 elif -100 < number < 100:
5     print("The number is a double-digit number.")
6 elif -1000 < number < 1000:
7     print("The number is a triple-digit number.")
8 else:
9     💡 print("The number has more than three digits.")
10 |
```

Task 02

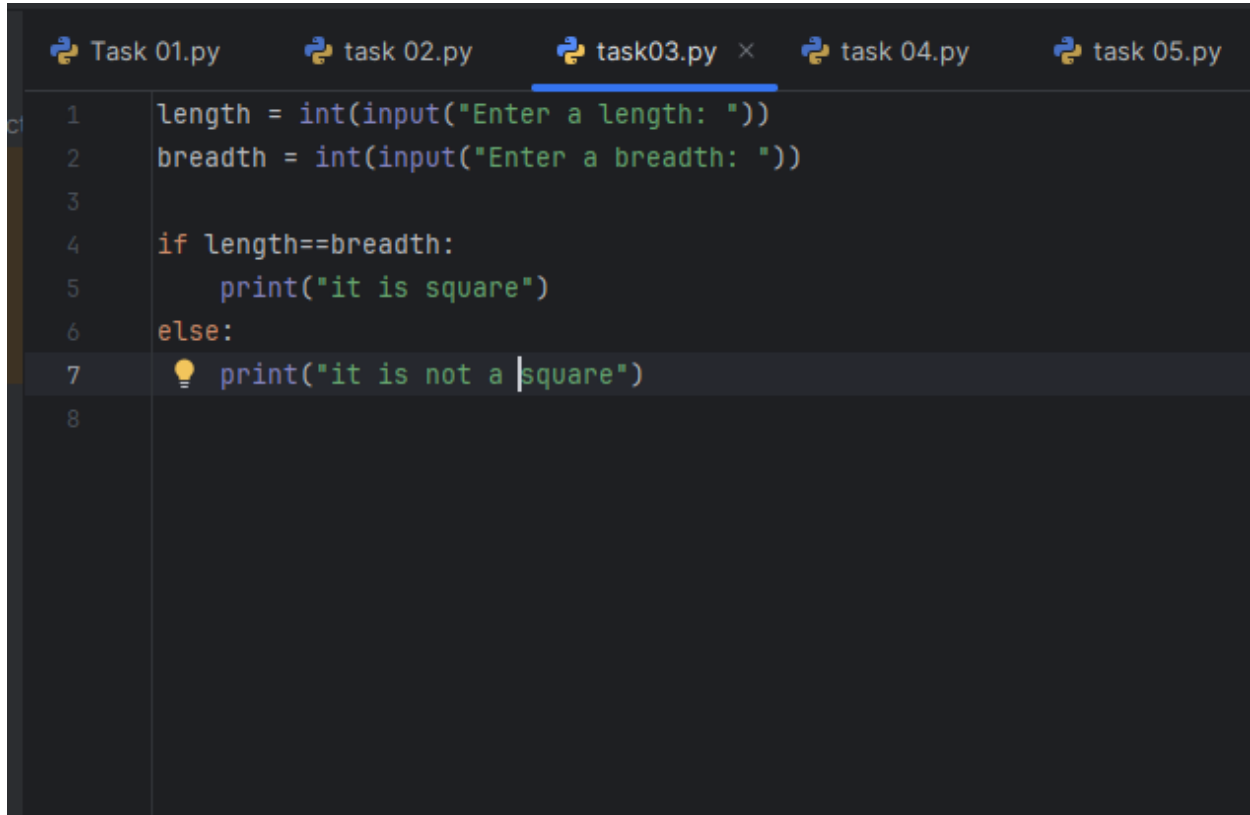


The screenshot shows a code editor with a dark theme. At the top right, the word "Current" is visible. Below it, there are five tabs: "Task 01.py", "task 02.py" (which is active and has a blue underline), "task03.py", "task 04.py", and "task 05.py". The main editor area displays the following Python code:

```
1 number = int(input("Enter a number: "))
2 if number%2==0:
3     print("number is even")
4 else:
5     💡 print("number is odd")
6 |
```

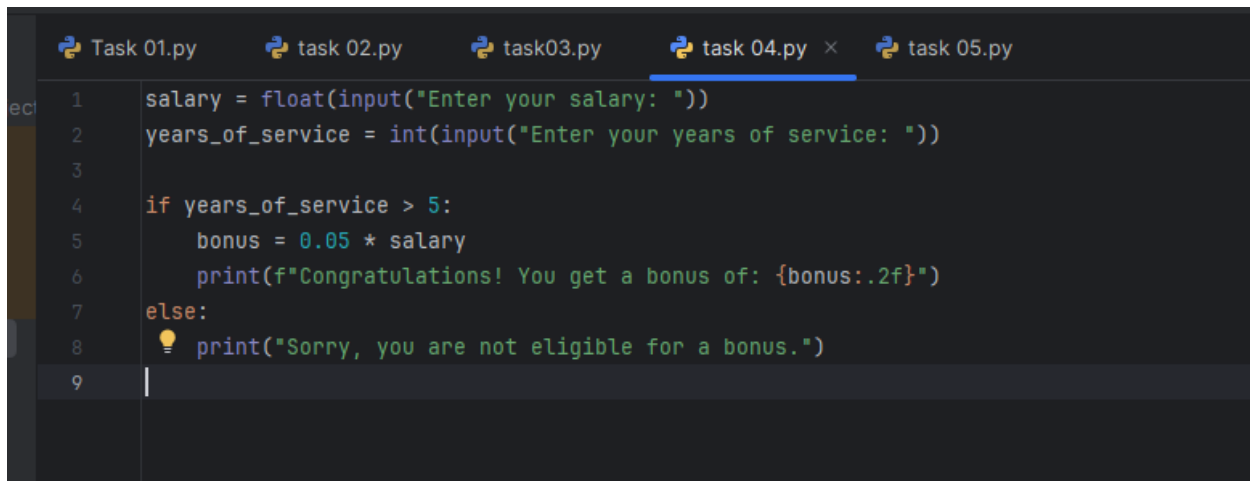
The code is a simple program that takes an integer input and checks if it is even or odd. The file "task 02.py" is currently selected, and the cursor is at the end of line 6.

Task 03



```
Task 01.py task 02.py task03.py × task 04.py task 05.py
1 length = int(input("Enter a length: "))
2 breadth = int(input("Enter a breadth: "))
3
4 if length==breadth:
5     print("it is square")
6 else:
7     print("it is not a square")
8
```

Task 04



```
Task 01.py task 02.py task03.py task 04.py × task 05.py
1 salary = float(input("Enter your salary: "))
2 years_of_service = int(input("Enter your years of service: "))
3
4 if years_of_service > 5:
5     bonus = 0.05 * salary
6     print(f"Congratulations! You get a bonus of: {bonus:.2f}")
7 else:
8     print("Sorry, you are not eligible for a bonus.")
9
```

Task 05

```
Task 01.py task 02.py task03.py task 04.py task 05.py ×
1 year = int(input("Enter a year: "))
2
3 if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
4     print("Leap Year")
5 else:
6     print("Not a leap year.")
7
```