

ALA-1

Code With Mistake Comments

```
print("Prime Checker")
num = int(input("Enter number: "))
i = 2
flag = 0
total = 0
while i < num:
    if num % i == 0:    # X Error: No indentation after while loop
        flag = 1        # X Should be indented inside if
        print("Divisible by", i) # X Should be indented inside if
        total = total + i    # X Should be indented inside if
        i = i + 1        # X Should be inside while loop

if flag == 0:
    print("Prime Number")  # X Missing indentation
else:
    print("Not Prime")     # X Missing closing bracket )

print("Sum of checked numbers:", total)

if total > num:
    print("Sum bigger")   # X Missing indentation
else:
    print("Sum smaller")  # X Missing indentation
```

Mistakes Explanation

② No indentation after while

- Code inside the loop must be indented.

② No indentation inside if

- Statements under if should be indented.

② Wrong position of i = i + 1

- It must be inside the while loop but outside the if.

② Missing closing bracket

- print("Not Prime" → bracket) missing.

② No indentation in final if–else

- print statements must be indented.

Correct Code

```
print("Prime Checker")
num = int(input("Enter number: "))
```

```
i = 2
flag = 0
total = 0
```

```
while i < num:
    if num % i == 0:
        flag = 1
        print("Divisible by", i)
        total = total + i
    i = i + 1
```

```
if flag == 0:
    print("Prime Number")
else:
    print("Not Prime")
```

```
print("Sum of checked numbers:", total)
```

```
if total > num:
```

```
print("Sum bigger")
else:
    print("Sum smaller")
```

output:

```
C:\Users\M.HUSAİN\AppData\Local\Microsoft\WindowsApps\python3.13.exe C:\Users\M.HUSAİN\OneDrive\Desktop\intern\main.py\jarvis.py
Prime Checker
Enter number: 223
Prime Number
Sum of checked numbers: 0
Sum smaller

Process finished with exit code 0
```