

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:    # ✗ Error: No indentation after while loop
        flag = 1      # ✗ Should be indented inside if
        print("Divisible by", i) # ✗ Should be indented inside if
        total = total + i # ✗ Should be indented inside if
        i = i + 1      # ✗ Should be inside while loop

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

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

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

Mistakes Explanation

? No indentation after while

- Code inside the loop must be indented.

? No indentation inside if

- Statements under if should be indented.

? Wrong position of $i = i + 1$

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

? Missing closing bracket

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

? 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.HUSAIN\AppData\Local\Microsoft\WindowsApps\python3.13.exe C:\Users\M.HUSAIN\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
```