|  |
| --- |
| Experiment No. 2 |
| To implement Conditional Statements and Loops in Python |
| Date of Performance: 31/01/2024 |
| Date of Submission: 14/02/2024 |



















**Code:**

#conditional statements

a = int(input("Enter a number:"))

if(a>100):

print("Number is greater than 100")

elif(a>50 and a<100):

print("Number lies between 50 and 100")

else:

print("Number is smaller than 100")

#nested if

x=8

r=x%2

if r==0:

print("even number")

if x>5:

print("greater than 5")

else:

print("smaller than 5")

else:

print("odd number")

#looping statements

#while loop

i=0

while i<=5:

print("hello")

i=i+1

#for loop

for i in range(1,6):

print(i)

**Output:**

Enter a number:56

Number lies between 50 and 100

even number

greater than 5

hello

hello

hello

hello

hello

hello

1

2

3

4

5

**Conclusion:**

Conditional Statements (if, elif, else):

if statement: It allows you to execute a block of code only if a certain condition is true.

elif statement: It stands for "else if". It allows you to check multiple conditions after the initial if statement. If the condition for if is False, it checks the condition of the next elif block and executes the block associated with the first elif whose condition is true.

else statement: It executes a block of code if none of the preceding conditions in the if or elif statements are true.

Looping Statements (for, while):

for loop: It iterates over a sequence (such as a list, tuple, string, or range) or any iterable object. The loop runs for each item in the sequence.

while loop: It repeatedly executes a block of code as long as a condition is true.