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| Name | Ali Mustafa Shah |
| Roll Number | SU92-BSDSM-S24 |
| Section | 2A |
| Semester | 2nd |
| Subject | Opp lab |
| Task | 1 |
| Submitted by | Syed Ali Mustafa Shah |
| Submitted to | Sir Rasikh |

**Task 1**

**Write a Python function to determine whether a given number is**

**prime or not. Your program should have the following features:**

• Implement a function called is\_prime(number) which takes an integer

parameter number and returns True if the number is prime, and False

otherwise.

• Use an if-else statement inside the is\_prime() function to check if the given

number is divisible by any integer from 2 to the square root of the number.

If it is divisible, return False; otherwise, return True.

• Implement a loop to repeatedly ask the user to enter a number. Inside the

loop, call the is\_prime() function to determine whether the entered number

is prime or not.

• Print an appropriate message indicating whether the number is prime or

not

**Solution**

def is\_prime(number):

    if number <=1:

        return False

    elif number <=3:

        return True

    elif number % 2 == 0 or number % 3 == 0:

        return False

while True:

    number = int(input("Enter any number (0 for Quit)"))

    if number  == 0:

        break

    if  is\_prime(number):

        print(f"{number} is prikme number.")

    else:

        print(f"{number} is not prime  number.")