

## **2. Coding and Debugging Questions (NOTE: Any language can be used)**

**Task 1** - Write a basic program for a function that checks if a password contains at least one lowercase letter, one uppercase letter, and one number.

```
def check_password(password):  
    check_lower = False  
    check_upper = False  
    check_digit = False  
  
    for char in password:  
        if char.islower():  
            check_lower = True  
        elif char.isupper():  
            check_upper = True  
        elif char.isdigit():  
            check_digit = True  
        if check_lower and check_upper and check_digit:  
            return True  
  
    return False  
  
password = input("Enter a password to check: ")  
if check_password(password):  
    print("Password is valid.")  
else:  
    print("Password has to contain at least one lowercase letter, one uppercase letter,  
and one number.")
```

main.py

Run

Share

Clear

1 def check\_password(password):

2 check\_lower = False

3 check\_upper = False

4 check\_digit = False

5

6 for char in password:

7 if char.islower():

8 check\_lower = True

9 elif char.isupper():

10 check\_upper = True

11 elif char.isdigit():

12 check\_digit = True

13 if check\_lower and check\_upper and check\_digit:

14 return True

15

16 return False

17

18 password = input("Enter a password to check: ")

19 if check\_password(password):

20 print("Password is valid.")

21 else:

22 print("Password has to contain at least one lowercase letter,")

Enter a password to check: Hivk90

Password is valid.

=== Code Execution Successful ===

```
Enter a password to check: Hivk90
Password is valid.

=== Code Execution Successful ===
```