Practical No. 6 : Write Python program to demonstrate use of loop control statements: continue, pass, break

● **Practical related questions**

1. **Describe Keyword "continue" with example.**
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The continue statement is used inside loops (for or while) to skip the rest of the current iteration and immediately move to the next iteration. When Python encounters continue, it ignores all statements below it in the loop body for the current pass. Control jumps back to the loop's condition check (for while) or to the next item (for for).

Example:
```
# Program to print odd numbers between 1 and 10 using continue
num = 0
while num < 10:
    num += 1
    if num % 2 == 0:
        continue
    print(num)
```

Output:
```
1
3
5
7
9
```

2. **Describe pass with example.**

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The `pass` statement in Python is used as a placeholder when a statement is syntactically required but you do not want any code to execute. It essentially does nothing and is often used as a stub for future code. When the `pass` statement is executed, it does nothing and allows the program to continue execution without any error. It is useful in situations where the program requires a block of code syntactically, but you don't have a logic for it yet or want to leave it blank temporarily.

Example:

```python
# Program demonstrating pass in a for loop
for i in range(1, 6):
    if i % 2 == 0:
        pass
    else:
        print(i)
```

Output:

```
1
3
5
```

3. **Write program to demonstrate use of break.**

→

```python
for i in range(1, 11):
    print(i)
    if i == 5:
        print("Breaking the loop as i equals 5")
        break
print("Program ended")
```

Output:

```
1
2
3
4
5
Breaking the loop as i equals 5
Program ended
```

4. **Write program to demonstrate use of nested if-else.**
➔
```
marks = 35
attendance = 80
if marks >= 40:
    if attendance >= 75 or marks >= 50:
        print("Allowed to sit for exam")
    else:
        print("Not allowed")
else:
    print("Fail")
```

Output:

```
Enter marks of Subject 1: 69
Enter marks of Subject 2: 73
Enter marks of Subject 3: 84
Enter marks of Subject 4: 91
Enter marks of Subject 5: 88
Grade: A
```