**### Description of Indian PAN (Permanent Account Number)**

**A Permanent Account Number (PAN) is a unique ten-character alphanumeric identifier issued by the Income Tax Department of India to individuals and entities for tax purposes. PAN serves as an important document for financial transactions and tax filing in India.**

**The structure of a valid PAN follows a specific format:**

**1. Length: PAN consists of exactly 10 characters.**

**2. Character Set:**

**- The first 5 characters are always alphabets.**

**- The next 4 characters are digits.**

**- The last character is again an alphabet (checksum character).**

**3. Pattern: The general pattern for a PAN is as follows:**

**- AAAAA9999A**

**- The first five characters are letters (A-Z).**

**- The next four characters are digits (0-9).**

**- The last character is a letter (A-Z).**

**#### Details of the PAN structure:**

**1. First 3 Characters (`AAAA`):**

**- These are random alphabets from A to Z.**

**2. 4th Character (`A`):**

**- Represents the status of the PAN holder. It can take one of the following values:**

**- P: Individual (Person)**

**- C: Company**

**- H: HUF (Hindu Undivided Family)**

**- A: AOP (Association of Persons)**

**- B: BOI (Body of Individuals)**

**- G: Government**

**- J: Artificial Judicial Person**

**- L: Local Authority**

**- F: Firm**

**- T: Trust**

**3. 5th Character (`A`):**

**- Typically, this character represents the first letter of the last name or surname of the individual or entity (in case of a non-individual, it reflects the first letter of the name).**

**4. Next 4 Characters (`9999`):**

**- These are numeric digits from 0 to 9.**

**5. Last Character (`A`):**

**- The last character is an alphabetic check digit used for validation.**

@the Developer**,** your task is to implement a python program to verify whether the PAN entered by a student for registering placements is valid or not.

**Testcases**

|  |  |  |
| --- | --- | --- |
| Sl No | Input | Output |
| 1 | Student: **AMDPS2291F** | **System : Valid !** |
| 2 | Student: **AMDPS2291FE** | **System : InValid !** |
| 3 | Student: **AMDPS2291F1** | **System : InValid !** |
| 4 | Student: **AMD5S2291F** | **System : InValid !** |
| 5 | Student: 1234567891 | **System : InValid !** |
| 6 | Student: **AMDPS2S91F** | **System : InValid !** |
| 7 | Student: **AMDPS22915** | **System : InValid !** |
| 8 | Student: **AMDPSQWERT** | **System : InValid !** |
| 9 | Student: | **System : InValid !** |