

Answer:

- As we know we have three processors called P1,P2 and P3 , which play respective roles.
- P1 stores the input date in the shared memory
- P2 process calculates the memory of alphanumeric and special characters present.
- The P3 process determines the strength of the password.
- #include <iostream>
- **PROGRAM :-**
Program in **c++**:

```
#include <iostream>
using namespace std;
void Print Strong Ness (string & input)
{
    int n = input. length ();
    bool haslower = false, hasuppey = false;
    bool has Digit = false, special chay = false;
    string normalchars = "abcdefghijklmnopqrstuvwxyz"
    "vwxyz ABCDEFGHIJKLMNOPQRSTU VWXYZ 123456 "
    " 7890 ";
    for (int i = 0; i <n; i ++)
    {
        if (istower (input [i]))
            has lower true;
        if (is upper (input [i]))
            hasuppey = true ;
        if (isdigit (input [i]))
            hasDigit = true ;
        size - t special =input. Find. - first - not - of (normal Chays);
        if (special! = String: npos)
            special char = true;
    }
    cout << "Strength of Password ";
    if (hasLower && has Upper & & has Digit && Special Char && (n> = 8))
        cout << "Strong" << endl;
    else if ((hashowerll hasupper) &&
        Special Char && (n> = 6))
        cout << "moderate" << endl;
    else
        cout << "weak" << endl;
    int main()
    {
        string input ="yash!@9274";
        printStrongNess(input);
        return 0;
    }
}
```