

Code:

```
#include <iostream>
#include <vector>
```

```
int main() {
    std::vector<int> vUId;

    for (int i = 0; i < 9; i++) {
        int numericChar;
        std::cout << "Enter NUMERIC characters of your VU ID: ";
        std::cin >> numericChar;
        vUId.push_back(numericChar);
    }
```

```
std::vector<int> oddList;
std::vector<int> evenList;
```

```
for (int i = 0; i < vuId.size(); i++) {  
    if (vuId[i] % 2 == 0) {  
        evenList.push_back(vuId[i]);  
    } else {  
        oddList.push_back(vuId[i]);  
    }  
}  
  
std::cout << "Solution Provided By M.junaid Qazi" << std::endl;  
std::cout << "Odd List:" << std::endl;  
for (int i = 0; i < oddList.size(); i++) {  
    std::cout << "List Element " << oddList[i] << std::endl;  
}  
  
std::cout << "nEven List:" << std::endl;  
for (int i = 0; i < evenList.size(); i++) {  
    std::cout << "List Element " << evenList[i] << std::endl;  
}  
  
std::vector<int> mergedList;  
mergedList.insert(mergedList.end(), oddList.begin(), oddList.end());  
mergedList.insert(mergedList.end(), evenList.begin(), evenList.end());  
  
std::cout << "nMerged List:" << std::endl;  
for (int i = 0; i < mergedList.size(); i++) {  
    std::cout << "List Element " << mergedList[i] << std::endl;  
}  
  
return 0;  
}
```

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Output:

```
C:\Users\ASUS\OneDrive\Desktop\Untitled1.exe
Enter NUMERIC characters of your VU ID: 1
Enter NUMERIC characters of your VU ID: 9
Enter NUMERIC characters of your VU ID: 0
Enter NUMERIC characters of your VU ID: 4
Enter NUMERIC characters of your VU ID: 0
Enter NUMERIC characters of your VU ID: 9
Enter NUMERIC characters of your VU ID: 0
Enter NUMERIC characters of your VU ID: 2
Enter NUMERIC characters of your VU ID: 2
Odd List:
List Element 1
List Element 9
List Element 9

Even List:
List Element 0
List Element 4
List Element 0
List Element 0
List Element 2
List Element 2

Merged List:
List Element 1
List Element 9
List Element 9
List Element 0
List Element 4
List Element 0
List Element 0
List Element 2
List Element 2

-----
Process exited after 10.74 seconds with return value 0
Press any key to continue . . .
```

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