Managing Processes, and Writing, Compiling & Executing C++ on Linux

Task#1

Change the program given in Activity 3 such that it accepts the input at command-line.

```
sam@sam-VirtualBox:~/Desktop$ gedit q1.cpp
^C
sam@sam-VirtualBox:~/Desktop$ g++ q1.cpp -o output
sam@sam-VirtualBox:~/Desktop$ ./output
Enter the size of array:
10
Enter the elements of array:
1
2
3
4
5
6
7
8
9
11

Max value is: 11

Min value is: 1
sam@sam-VirtualBox:~/Desktop$
```

```cpp
#include<iostream>
using namespace std;

int main(){
        int arr[10], n, max, min;
        cout << "Enter the size of array: " << endl;
        cin >> n;
        cout << "Enter the elements of array: " << endl;

        for(int i = 0; i < n; i++){

                cin >> arr[i];

        }

        max = arr[0];
        min = arr[0];

        for(int i = 0; i < n; i++){

                if(arr[i] > max){
                        max = arr[i];
                }

                if(arr[i] < max){
                        min = arr[i];
                }

        }

        cout << "\nMax value is: " << max << endl;
        cout << "\nMin value is: " << min << endl;


}
```

Task#2

Write a C++ program that accepts a number as input and find whether it is a palindrome or not

```
sam@sam-VirtualBox:~/Desktop$ g++ q2.cpp -o output2
sam@sam-VirtualBox:~/Desktop$ ./output2
Enter a word:
HELLO
not_palindrome
sam@sam-VirtualBox:~/Desktop$ ./output2
Enter a word:
DAD
is_Palindrome
sam@sam-VirtualBox:~/Desktop$
```

```cpp
#include<iostream>
#include<string>
using namespace std;

int main(){

        string word, reverse;


        cout << "Enter a word: " << endl;
        cin >> word;

        for(int i = word.length() - 1; i >= 0; i--){
                reverse += word[i];
        }

        if(word == reverse){
                cout << "is_Palindrome" << endl;
        }
        else{
                cout << "not_palindrome" << endl;
        }


        return 0;

}
```

C++ ▾   Tab Width: 8 ▾