Assignment 1

Due Date: 19th March 2021

Individual Assignment

Najam Ali Abass

p20-0471

Task 1:

Write a program for ATM machines that would take amount in numbers and would decide to dispense the amount in least number of notes.

Source code:-

```cpp
#include <iostream>

using namespace std;
int main() {
int amount;
cout << "please enter amount: ";
cin >> amount;
int lst[7] = { 1500, 1000, 500, 100, 50, 20, 10 };
int lst1[7] = { 0 };
for (int i = 0; i < 7; i++) {
if (amount >= lst[i]) {
lst1[i] = amount / lst[i];
amount = amount - lst1[i] * lst[i];
}
}
for (int j = 0; j < 7; j++) {
if (lst1[j] != 0) {
cout << lst1[j] << " x " << lst[j] << endl;
```

```
}
}
}
```

output:


```
PROBLEMS   OUTPUT   TERMINAL   DEBUG CONSOLE

please enter amount: 20000
13 x 1500
1 x 500
[1] + Done
n-tftplljy.qpo" 1>"/tmp/Microsoft
janny@stoic-programmer:~/Documents
```

Task 2: Write a program that would return the most repeated character in an input string.

For example: school

Output: o, 2

Note: if there is a match, it is up to you which ever you want to print.

Source code below:-

```cpp
#include<iostream>

#include<string>
using namespace std;
int main()

{
char character ;
string word ;
int count = 0;
cout << "Enter a word: " ;
cin >> word;
cout << "Which repeated character would you like to count :
" ;
cin >> character;
for(int i=0; i<word.length(); i++)
{
if(word[i] == character)
{
count++;
}
}
cout << "The character " << character << " repeated " <<
count << " times " << endl;
return 0;
}
```

output2:

```
Enter a word: programmingislove
Which repeated character would you like to count : m
The character m repeated 2 times
[1] + Done                          "/usr/bin/gdb" --int
n 4bwlsvvl.l64" 1>"/tmp/Microsoft_MIEngine_Out_2oo54i
```