



CS201-Introduction to Programming Practical
Assignment No.1 Solution
Semester: Spring 2024

Total marks = 20

Deadline
29th of April 2024

Please carefully read the following instructions before attempting the assignment Solution.

NOTE

Don't copy-paste the same answer.

Make sure you can make some changes to your solution file before submitting
copy paste solution will be marked zero.

If you found any mistake then correct yourself and inform me.

Before submitting an Assignment GDB checks your assignment requirement file.



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Provide by **M.JUNAID QAZI**

Code:

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

```
using namespace std;
```

```
string intToString(int num) {
    stringstream ss;
    ss << num;
```



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```
return ss.str();
}

int sumOfEvenDigits(int num) {
    int sum = 0;

    while (num > 0) {
        int digit = num % 10;

        if (digit % 2 == 0) {
            sum += digit;
        }
        num /= 10;
    }
    return sum;
}
```

```
int main() {
```

```
    int vuId = 190409022;
```

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```
    cout << "Student ID: BC" << vuId << endl;
```

```
    int digitalPart = vuId % 1000000000;
```



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```
cout << "Digital part of the Student ID is: " << digitalPart << endl;
```

```
string vuIdString = intToString(vuId);
```

```
vector<int> evenDigits;
```

```
for (size_t i = 0; i < vuIdString.size(); ++i) {  
    int digit = vuIdString[i] - '0';  
    if (digit % 2 == 0) {  
        evenDigits.push_back(digit);  
    }  
}
```

```
cout << "Even digits: ";
```

```
for (size_t i = 0; i < evenDigits.size(); ++i) {  
    cout << evenDigits[i] << " ";  
}  
cout << endl;
```

```
int sumOfEven = sumOfEvenDigits(digitalPart);
```

```
cout << "Sum of even Digits is: " << sumOfEven << endl;
```

```
return 0;
```

```
}
```



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Output

```
G:\Dev\cs201P.exe
ID: BC190409022
Student Digital part of the Student ID is: 190409022
Even digits: 0 4 0 0 2 2
Sum of even Digits is: 8

-----
Process exited after 0.1029 seconds with return value 0
Press any key to continue . . .
```

**Every Assignment/GDB is change due to unique Student ID so don't copy
That is truly perfect step by step idea solution get help easily.**

Wish you the very best of Luck!

M.junaid Qazi



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