CS7381 Project 3

MIPS Assembly Code Programming Using MARS Tool - Additional Coding Assignment

Name: Bingying Liang
ID: 48999397
Distance

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For this exercise, you will write another MIPS assembly code program. This time, you will create and run MIPS code for the following high-level language (HLL) code:

C++ Version

```
int j, k, n, x;
x = 1;
n = 4;
j = n;
// outer loop with j

do
{
    k = n;
    // inner loop with k
    do
    {
        x = x + 2 * j + 1;
        cout << x << " ";
        k--;
    } while (k > 0);
    j--;
} while (j > 0);
```

Java Version

```
x = 1
n = 4
j = n
# outer loop with j
while True:
    k = n
    # inner loop with k
    while True:
```

```
x = x + 2 * j + 1
print(x, end=" ")
k -= 1
if (k == 0):
    break
j -= 1
if (j == 0):
    break
```

Screen shot of the MARS console



