Introduction to ComputING

Section G

Exercises 3 – INCREMENT/DECREMENT

OCTOBER 2014

Question 1

Write the output of the following piece of code and check it by running it:

int main()

{

int y=0;

while(y++<5)

{

cout << y << ' ';

}

cout << '\n' << y;

}

Question 2

Write the output of the following piece of code and check it by running it:

int main()

{

int y=10;

while(- -y>5)

{

cout << y << ' ';

}

cout << '\n' << y;

}

QUESTION 3

Write the output of the following piece of code and check it by running it:

void myFunction(int a,int &b)

{

a = a+10;

b = b\*2;

cout << "In function : " << a << ' ' << b << '\n';

}

int main()

{

int x = 2,y=1;

myFunction(x++,y); //note we cannot pass y++ as second parameter

cout << x << ' ' << y << '\n';

myFunction(x--,y); //note we cannot pass y++ as second parameter

cout << x << ' ' << y << '\n';

myFunction(++x,y); //note we cannot pass y++ as second parameter

cout << x << ' ' << y << '\n';

myFunction(--x,y); //note we cannot pass y++ as second parameter

cout << x << ' ' << y << '\n';

}

QUESTION 4

Write the output of the following piece of code and check it by running it:

int main()

{

int x = 10;

cout << x++ << '\n';

cout << x << '\n';

cout << --x << '\n';

cout << x << '\n';

cout << ++x << '\n';

cout << x << '\n';

cout << x-- << '\n';

cout << x << '\n';

}