

**National University of Computer and Emerging Sciences, Lahore Campus**

**Programming Fundamentals**

**QUIZ 3(Version A)**

**Section:** BCS-1H  **Date:** 22 September 2022

**Q1: Write the Output of the following code:**

|  |
| --- |
| #include <iostream>  using namespace std;  int main() {  int n = 6, m = 7;   * 1. cout << (n == 4) << endl;   2. cout << (n > 3) << endl;   3. cout << (n < 4) << endl;   4. cout << (n != 0) << endl;   5. cout << (n == 0) << endl;   6. cout << (n > 0) << endl;   7. cout << (n == m && m == 4 - 1) << endl;   8. cout << (n == 5 || m != 4) << endl;   9. cout << !(n >= 10) << endl;   10. cout << "1st expression is: " << (-1 + 4 \* 6) << endl;   11. cout << " 2nd expression is: " << ((35 + 5) % 7) << endl;   12. cout << " 3rd expression is: " << (14 + -4 \* 6 / 11) << endl;   13. cout << " 4th expression is : " << (2 + 15 / 6 \* 1 - 7 % 2) << endl;   int x=8, y=2, z=7;  int result;   * 1. result = y++ + z-- + ++x;   2. cout << result << endl;   return 0;  } |
| OUTPUT:  0 (flase)  1 (true)  0  1  0  1  0  1  1  1st expression is: 23  2nd expression is: 5  3rd expression is: 12  4th expression is : 3  18 |

**Q2: Write the Output of the following code:**

Answer is: 2

#include <iostream>

using namespace std;

int main()

{

int num1=4, num2=2, ans;

int i=1;

while(i <= num1 && i <= num2)

{

if (num1 % i == 0 && num2 % i == 0)

{

ans = i;

}

i++;

}

cout << " Answer is: " << ans << endl;

return 0;

}

**Q3: Write the Output of the following code:**

n = 4 k = 5

#include <iostream>

using namespace std;

main() {

int n, k = 5;

n = (9 % k ? k - 1 : k + 1);

cout << "n = " << n << " k = " << k << endl;

}

**Q4: Write the Output of the following code:**

#include<iostream>

using namespace std;

int main()

{

int previous=700, current=1000, consumption;

float total, dollar;

consumption = current - previous;

cout << endl << "Consumption = " << consumption << " KW" << endl;

if (consumption < 70)

{

total = consumption \* 350;

dollar = total / 4100;

cout << endl << "Total Due (riel) = " << total << " riel";

cout << endl << "Total Due (dollar) = " << dollar << " dollar" << endl;

}

else if (consumption < 100)

{

total = (consumption - 70) \* 500 + (70 \* 350);

dollar = total / 4100;

cout << endl << "Total Due (riel) = " << total << " riel";

cout << endl << "Total Due (dollar) = " << dollar << " dollar" << endl;

}

else if (consumption < 450)

{

total = (consumption - 100) \* 770 + (100 \* 500) + (70 \* 350);

dollar = total / 4100;

cout << endl << "Total Due (riel) = " << total << " riel";

cout << endl << "Total Due (dollar) = " << dollar << " dollar" << endl;

}

else

{

total = (consumption - 450) \* 840 + (450 \* 770) + (100 \* 500) + (70 \* 350);

dollar = total / 4100;

cout << endl << "Total Due (riel) = " << total << " riel";

cout << endl << "Total Due (dollar) = " << dollar << " dollar" << endl;

}

return 0;

}

Consumption = 300 KW

Total Due (riel) = 228500 riel

Total Due (dollar) = 55.7317 dollar