# National University of Computer and Emerging Sciences

**Program:** BS(SE) **Total Marks:** 10 marks
**Section:** ___ **Time Allowed:** 15 minutes
**Date**: Oct 30, 2024, **Instructor:** Bilal Khalid Dar
**Student Name:** _____ **Student Signature:**
**Registration No.** _____ _____

**Important Instructions for attempting Quiz**

***READ ALL QUESTIONS AND INSTRUCTIONS CAREFULLY***

- Carrying of Mobile phone, digital dairies, digital watch, or any electronic device is not allowed.
- Use only Black/Blue color pen. Sharing of anything is forbidden
- **Write your answer in provided space. No answer will be marked outside given space**
- **CUTTING IS NOT ALLOWED**. All questions are self-explanatory and require no further explanations during exam time. Read all questions
- **RETURN the Quiz paper after completion.**

## QUIZ 4 - A

**Write output of the following codes**

| | |
|---|---|
| `#include <iostream>`<br>`using namespace std;`<br><br>`int main() {`<br>`  int a = 3, b = 6;`<br>`  for (int i = 0; i < 3; i++) {`<br>`  if (a < b) {`<br>`  b -= 2;`<br>`  } else {`<br>`  a += 2;`<br>`  }`<br>`  }`<br>`  cout << "a = " << a << ", b = " << b << endl;`<br>`  return 0;`<br>`}` | **a = 5 b = 2** |
| `#include <iostream>`<br>`using namespace std;`<br><br>`int main() {`<br>`  int i = 1, j = 1;`<br>`  while (i <= 5) {`<br>`  if (i % 2 == 0) {`<br>`  j += i;`<br>`  } else {`<br>`  j -= i;`<br>`  }`<br>`  i++;`<br>`  }` | **J = -2** |

| | |
|---|---|
| `    cout << "j = " << j << endl;`<br>`    return 0;`<br>`}` | |
| `#include <iostream>`<br>`using namespace std;`<br><br>`int main() {`<br>`    int x = 3;`<br>`    for (int i = 0; i < 5; i++) {`<br>`        if (x-- == 0) {`<br>`            x = 2;`<br>`        }`<br>`    }`<br>`    cout << "x = " << x << endl;`<br>`    return 0;`<br>`}` | **X = 1** |
| `#include <iostream>`<br>`using namespace std;`<br><br>`int main() {`<br>`    int n = 5, result = 1;`<br>`    for (int i = 1; i < n; i++) {`<br>`        if (i % 2 == 0) {`<br>`            result *= i;`<br>`        } else {`<br>`            result += i;`<br>`        }`<br>`    }`<br>`    cout << "result = " << result << endl;`<br>`    return 0;`<br>`}` | **Result = 28** |
| `#include <iostream>`<br>`using namespace std;`<br><br>`int main() {`<br>`    int x = 5, y = 10;`<br>`    if (x++ < y && ++y > 10) {`<br>`        x += 2;`<br>`    } else {`<br>`        y -= 2;`<br>`    }`<br>`    cout << "x = " << x << ", y = " << y << endl;`<br>`    return 0;`<br>`}` | **x = 8, y = 11** |