**Programming Assignment 6**

1. What is the output of the following program?

#include <iostream>

using namespace std;

int main()

{

    int a = 32, \*ptr = &a;

    char ch = 'A', &cho = ch;

    cho += a;

    \*ptr += ch;

    cout << a << ", " << ch << endl;

    return 0;

}

2. Why is the following program not getting compiled?

#include <iostream>

using namespace std;

int main()

{

    const int i = 20;

    const int\* const ptr = &i;

    (\*ptr)++;

    int j = 15;

    ptr = &j;

    cout << i;

    return 0;

}

3. What is the output of the following program?

#include <iostream>

using namespace std;

int main()

{

    int num[5];

    int\* p;

    p = num;

    \*p = 10;

    p++;

    \*p = 20;

    p = &num[2];

    \*p = 30;

    p = num + 3;

    \*p = 40;

    p = num;

    \*(p + 4) = 50;

    for (int i = 0; i < 5; i++)

        cout << num[i] << ", ";

    return 0;

}

4. What is the output of the following program?

#include <iostream>

using namespace std;

int main()

{

    int arr[] = { 4, 5, 6, 7 };

    int\* p = (arr + 1);

    cout << \*arr + 10;

    return 0;

}

5.cWhat is the output of the following program? If it doesn’t get compiled, why?

#include <iostream>

using namespace std;

int main()

{

    int a = 10, \*pa, &ra;

    pa = &a;

    ra = a;

    cout << "a=" << ra;

    return 0;

}