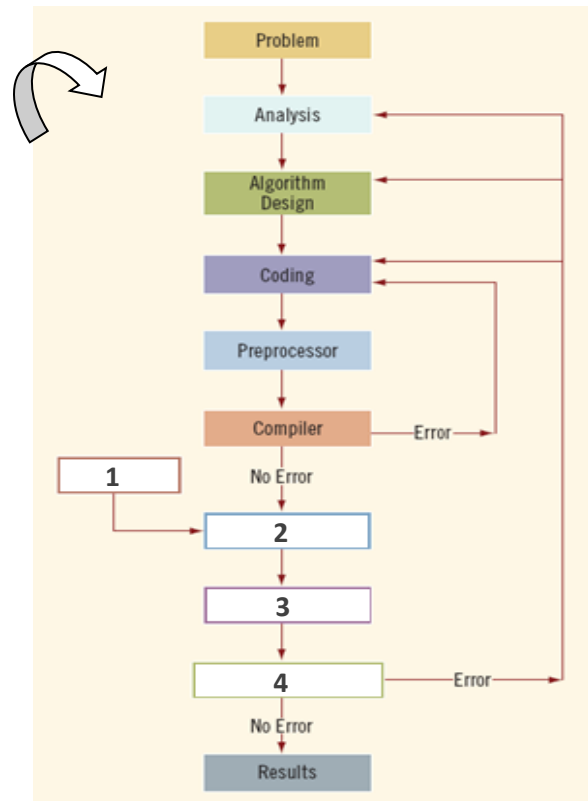


- i. Given the following diagram for the Problem Analysis–Coding–Execution Cycle, complete the following lines to show the details of the machine-role in that cycle:

1.
2.
3.
4.



- ii. Given the following program, show the corresponding output on the screen:

```

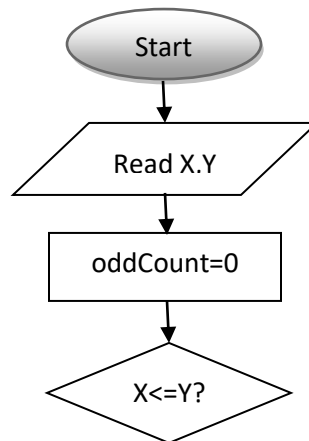
#include <iostream>
using namespace std;
int main()
{
    int x=13, y = 24, z=5;
    double w=3.0;

    z = x--;
    w = x%z+y/w;
    cout << "Value of Z is: " << z << endl ;
    cout << "Value of W is: " << w << endl ;
    if (z=5)
        cout << "Last Value of Z is: " << z-- << endl ;

    return 0;
}
  
```



Complete the following flowchart for a program that reads two numbers X, Y (note that $X < Y$), and finds how many odd numbers exist between them, then display that back to the user. (Hint: try sample numbers to check on your solution)



Q 3.(CLO2)**(6Marks)**

Complete the following C++ program that reads two numbers num1 and num2. Subtract 2 from the largest number, and add 5 to the smallest number. Finally, print to the user the largest number, smallest number as well as the product of the new values of these numbers. (Note: num1≠num2)

```
#include <iostream>
using namespace std;

int main()
{
    int num1, num2;
    int largest, smallest, product;

    cout << "Enter two numbers: ";
    cin >> num1 >> num2;
```

Sample Outputs: