**Fundamentals of Programming**

**Lab Journal – Lab 1**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enrollment #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Writing the first program**

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| 1. Write the following program in your particular IDE and compile it.   #include <iostream>  #include <conio.h>  using namespace std;  int main()  {  cout << " This is first ";  cout << " program in C++";  \_getch();  return 0;  } |
| 1. If there are compiler errors correct them and compile again. What is the output of the program? |
| 1. In case you didn't have any typing errors on your first attempt, we'll introduce some now. Change the word cout in the source program to couts and try to compile the program. How does your compiler inform you of this error? |
| 1. Correct the error introduced in the above step, and then remove the semicolon from the end of the first line. Try to compile this altered version. How does your compiler respond? |
| 1. Omit the statement return 0; from the program and record the error. |
| 1. Write this code in your compiler, see its output and write it below.   #include <iostream>  #include <conio.h>  using namespace std;  int main ()  {  cout << “\*\n\*\*\n\*\*\*\n\*\*\*\*\n\*\*\*\*\*\n”;  \_getch();  return 0;  }  Output:- |
| 1. Write this code in your compiler, see its output and write it below.   #include <iostream>  #include <conio.h>  using namespace std;  int main()  {  cout<<"subject " <<"\tmarks"<<"\nmathematic\t"  <<90<<"\ncomputer\t"<<77<<"\nchemistry\t"<<69;  \_getch();  return 0;  }  Output:- |
| 1. Now Write a program yourself to print a rectangle and a Square on screen.   \*\*\*\*\*\*\*\*  \* \*  \* \*  \* \*  \* \*  \* \*  \* \*  \*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*  \* \*  \* \*  \*\*\*\*\*\*\*\*  Code:- |
| 1. Manipulators are operators that are used with insertion operator **(<<)** to control format of data.   A very useful manipulator is ‘endl’ which stands for ‘end of line’.  It inserts a new line and is used as follows:  cout << “This is a test message “ << endl;  cout << “This is a” << endl << “test message “ << endl;  Write the program using endl manipulator to display the following text:  C++  programming is not  that though  Code:- |
| 1. (Home Task) Write a program yourself to print a triangle on screen.   /\  / \  / \  / \  ------------  Code: |

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