

Beginner Problem Sheet 2

1. Write a program to print “Jai Hind” when positive number is entered, “Jay Jawan” when zero is entered, and “Jai Kisan” when a negative number is entered.
2. Write a program to find sizes of fundamental data types. (using operator sizeof()).
3. Write a program to display various type or arithmetic operation using mixed data type. In other words you have to use all basic arithmetic operators to show useful result.
4. Write a program to input a two digit number and print its LSD.
5. Write a program to input a two digit number and print its LSB.
6. WAP that asks the user to input lengths of three sides of a triangle and
 - a. Prints whether it is a valid triangle or not
 - b. If the triangle is valid, prints whether the triangle is equilateral, scalene or isosceles.
7. Write a program to enter a character and check whether it is alphabet or not. NOTE: Alphabet can be small or capital. Hint: Think towards ASCII
8. What is Looping statement, What is Infinite Loop. REFER:
<https://www.youtube.com/watch?v=IsC31Ce3fpA>
9. Write a Program to take the coefficients of a Given quadratic Equation as input and Calculate its roots(may be Real and May be Complex).
Given Equations :

$$x^2 - 2x + 1, x^2 - x - 1$$

10. Examine the following output:

```

#include <bits/stdc++.h>
int main()
{
    int a = 9;
    if (a = 5)
    {
        cout << "LOL, go to study";
    }
    else
    {
        cout << "Go to Play";
    }
    return 0;
}

```

a.

```

#include <bits/stdc++.h>
using namespace std;
int main()
{
    int i=10;
    i==50;|
    if (i==50)
    {
        cout << "LOL, go to study";
    }
    else
    {
        cout << "Go to Play";
    }
    return 0;
}

```

b.

```

#include <bits/stdc++.h>
using namespace std;
int main()
{
    int a = 20;
    int b = a--;
    if (a<20 && b>a)
    {
        cout << "LOL, go to study";
    }
    else
    {
        cout << "Go to Play";
    }
    return 0;
}

```

c.

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
    char w = 'w';
    if (w == 119)
    {
        cout << "LOL, go to study";
    }
    else
    {
        cout << "Go to Play";
    }
    return 0;
}
d.
```