```
/*
Class Work:

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

int main()
{
   float num = 243.1346378;

   double num2 = 1 / 3;
   cout << fixed << showpoint << setprecision(2) << num2 << '\n';
   cout << fixed << setprecision(2) << num2 << '\n';

   cout << scientific << num << "\n";
   cout << showbase << num << "\n";
   cout << endl;
   return 0;
}

*/

//Issues Related to IO Stream..
/*
//Problem no 1:
#include<iostream>
using namespace std;
```

```
int main()
{
   int x, y;
   char ch;
   //cout << "For x,y,ch\n";
   //cin >> x >> y >> ch;
   //cout << x << "\t" << y << "\t" << ch << "\n";

   //cout << "For ch,x,y\n";
   //cin >> ch >> x >> y;
   //cout << ch << "\t" << x << "\t" << y << "\n";

   //cout << "For x,,ch,y\n";
   //cin >> x >> ch >> y;
   //cout << x << "\t" << ch << "\t" << y << "\n";

   //cout << "For x,y and cin.ignore(ch)\n";
   //cin >> x >> y;
   //cin.get(ch);
   //cout << x << "\t" << y << "\t" << ch << "\n";

   cout << endl;
   return 0;
}
*/

//Selection Structure..
/*
//Problem no 2:
```

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

int main()
{
   srand(time(0));
   cout << "*****Kangaroo Math Competition*****\n";

   int num1 = 1 + rand() % 99999;
   int num2 = 1 + rand() % 99999;
   int sum = num1 + num2, answer;

   cout << setw(10) << num1 << "\n" << "+" << setw(9) << num2 << "\n";
   cout << setw(10) << setfill('-') << "" << "\n";

   cout << "Hey kido Enter Your Answer: ";
   cin >> answer;

   if (answer != sum)
   {
      cout << "OOPs! Your answer is incorrect. Keep doing the hard work. You will crack it one day.";
   }

   else
   {
      cout << setw(10) << sum;
   }
```

```
    cout << endl;
    return 0;
}
*/

///*
//Problem no 3:
#include<iostream>
using namespace std;

int main()
{
    float startingTime, noOfMinutes, ratePerMinute;

    cout << "Enter the starting time of the call: ";
    cin >> startingTime;

    cout << "Enter the Number of Minutes of the call: ";
    cin >> noOfMinutes;

    float startingTimeFractionalPart = (startingTime - (int)startingTime) * 100;

    float noOfMinutesInHours = noOfMinutes / 60;
    float noOfMinutesFractionalPart = noOfMinutesInHours - (int)noOfMinutesInHours;

    if ((startingTime < 23.59 && noOfMinutesInHours < 23.59) && (startingTimeFractionalPart < 59 &&
noOfMinutesFractionalPart < 59))
```

```
    {

        if (startingTime < 6.59)
        {
            ratePerMinute = 0.12;
        }

        else if (startingTime < 19.0)
        {
            ratePerMinute = 0.55;
        }

        else
        {
            ratePerMinute = 0.35;
        }

        float charge = noOfMinutes * ratePerMinute;
        cout << charge;
    }



    cout << endl;
    return 0;
}
//*/

//Formatted IO:
/*
```

```
//Problem no 1:


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


int main()
{
   unsigned short int cost, bagSize;
   float area;


   cout << "Enter the amount of fertilizer, in pounds, in one bag: ";
   cin >> bagSize;


   cout << "\nEnter the cost of " << bagSize << " in pounds, in one bag : ";
   cin >> cost;


   cout << "\nEnter the area in sqaure feet, that can be fertilized by one bag: ";
   cin >> area;


   cout << "The cost of fertilizer per pound is: "  << setw(3) << setfill('-') << "$" << bagSize / cost << "\n";
   cout << "The cost of fertilizing per square feet is: "  << setw(3) << setfill('-') << "$" << area / cost <<
"\n";




   cout << endl;
   return 0;
}
```

```
*/
```