

C++ Assignment:

Logical Questions

- 1) What will be the output of the following? Explain your working

```
#include<iostream.h>
#include<conio.h>
class Library
{
private:
int bookno;
char bookname[40];
public:
Library( )
{
cout<<"Books Are the best friend";
}
void show( )
{
cout<<"College Life-Best Memories";
}

};
void main( )
{
Library obj;
obj.show();
}
```
- 2) How many bytes will be allocated by the object of class RESORT? Explain your answer

```
class Resort
{
private:
int roomno;
char name[40];
float charges;
int days;
public:
//member functions
----
----
----
};
```
- 3) What will be the output of the following? Explain your working

```
#include<iostream.h>
#include<conio.h>
class Test
{
public:
Test( )
{
```

```

calculate();
cout<<"Constructor";
}
void calculate()
{
show();
cout<<"Calculating";
}
void show()
{
cout<<"I am displaying";
}
};
void main()
{
Test t;
}

```

Programming Question:

- 1) Write a program to implement a class DRIVING and apply your logic with following criteria

Age	Eligibility
If age >=16 and age <18	Eligible for Learner's License
If age >=18	Eligible for permanent License

- 2) Write a program to design a class representing complex numbers and having the functionality of performing addition & multiplication of two complex numbers.
- 3) Using the concept of function overloading Write function for calculating the area of triangle, circle and rectangle.
- 4) Write a program to perform addition of two complex numbers using constructor overloading. The first constructor which takes no argument is used to create objects which are initialized to zero, second which takes one argument is used to initialize real and imag parts to equal values and third which takes two argument is used to initialize real and imag to two different values.
- 5) Write a class Measure which contains private data members as feet and inches. Write a proper code to sum two objects of measure class.
- 6) Write a class Measure which contains private data members as feet and inches. Write a proper code to compare two objects of measure class.