Subject: Computer Science   **Topic:** File Pointer   **Worksheet No.:**9

Resource Person: Roilet Noronha   **Date:**_____

Name of the Student :_____   **Class &Div:** XII __   **Roll Number :**___

1. Find the output of the following C++ Code considering that the binary file **CLIENT.DAT** exists on the hard disk with a data of 1000 clients.

   ```cpp
   class client{
           int code;
           char cname[20];
           public:
           void registerc();
           void displayc();};

   void main(){
           fstream f;
           client c;
           f.open("CLIENT.DAT",ios::binary|ios::in);
           f.read((char *)&c,sizeof(c));
           cout<<"Rec:"<<f.tellg()/sizeof(c);
           f.read((char *)&c,sizeof(c));
           f.read((char *)&c,sizeof(c));
           cout<<"Rec:"<<f.tellg()/sizeof(c);
           f.close();}
   ```

2. Find the output of the following C++ code considering that the binary file MEM.DAT exists on the hard disk with a data of 2000 members:

   ```cpp
   class MEMBER{
   int Mcode;
   char MName[20];
   public:
   void Register();void Display();};
   void main()
   {
   fstream MFile;
   MFile.open("MEM.DAT", ios::binary|ios::in);
   MEMBER M;
   MFile.read((char*)&M, sizeof(M));
   cout<<"Rec:"<<MFile.tellg()/sizeof(M)<<endl;
   MFile.read((char*)&M, sizeof(M));
   MFile.read((char*)&M, sizeof(M));
   cout<<"Rec:""<<MFile.tellg()/sizeof(M)<<endl;
   MFile.close();}
   ```

3. Observe the program segment given below carefully and fill the blanks marked as Statement 1 and

Statement 2 using seekp() and seekg() functions for performing the required task.

```cpp
class Item{
int Ino;char Item[20];
public:
//Function to search and display the content from a particular record number
void Search(int );
//Function to modify the content of a particular record number
void Modify(int);};
void Item::Search(int RecNo){
fstream File;
File.open("STOCK.DAT",ios::binary|ios::in);
_____ //Statement 1
File.read((char*)this,sizeof(Item));
cout<<Ino<<"==>"<<Item<<endl;
File.close();
}
void Item::Modify(int RecNo)
{
fstream File;
File.open("STOCK.DAT",ios::binary|ios::in|ios::out);
cout>>Ino;cin.getline(Item,20);
_____ //Statement 2
File.write((char*)this,sizeof(Item));
File.close();}
```

4. Observe the program segment given below carefully and fill the blanks marked as Statement 1 and Statement 2 using seekg() and tellg() functions for performing the required task.

```cpp
class Employee{
int Eno;char Ename[20];
public:
//Function to count the total number of records
int Countrec();
};
int Item::Countrec()
{
fstream File;
File.open("EMP.DAT",ios::binary|ios::in);
_____ //Statement 1
int Bytes = _____ //Statement 2
int Count = Bytes / sizeof(Item);
File.close();
return Count;}
```

5. Find the output of the following C++ code considering that the binary file sp.dat already exists on the

hard disk with 2 records in it.

```cpp
class sports{
  int id;
  char sname[20];
  char coach[20];
  public:
  void entry();
  void show();
  void writing();
  void reading();
}s;
void sports::reading()
{
ifstream i;
i.open("sp.dat");
while(1)
{
i.read((char*)&s,sizeof(s));
if(i.eof())
break;
else
cout<<"\n"<<i.tellg();
}
i.close();}
void main(){   s.reading();}
```

6. Find the output of the following C++ Code considering that the binary file **CLIENT.DAT** exists on the hard disk with a data of 200 clients.

```cpp
class CLIENTS
{
int CCode;char CName[20];
public:
void REGISTER(); void DISPLAY();
}:
void main()
(
fstream File;
File.open("CLIENTS.DAT",ios::binary|ios::in);
CLIENTS C;
File.seekg(6*sizeof(C));
File.read!(char*)&C, sizeof(C)):
cout<<"Client Number:"<<File.tellg()/sizeof(C)+1;
File.seekg(0,ios::end);
cout«"of"<<File.tellg()/sizeof(C)<<endl;
File.close();
}
```