Practical-1

<u>Aim:</u> WAP to demonstrate example of default constructor or no argument constructor.

Program:

```
#include<iostream>
#include<string.h>
using namespace std;
class State
{
  private:
              char State name[100];
              char State capital city[100];
              char State offical language[100];
       public:
              State()
                     strcpy(this->State name, "Assam");
                     strcpy(this->State capital city, "Guwahati");
                     strcpy(this->State offical language, "Assamese");
              void getData()
                     cout <<"~> Name: "<<this->State name <<endl
                             <<"~> Capital city: "<<this->State capital city <<endl
                             <<"~> Offical language: "<<this->State offical language <<endl
<<endl;
              }
};
int main()
```

```
State s1,s2;
s1.getData();
s2.getData();
return 0;
}
```

Output:

Practical-2

Aim: WAP to demonstrate example of parameterized constructor.

Program:

```
#include<iostream>
#include<string.h>
using namespace std;
class State
  private:
              char State name[100];
              char State capital city[100];
              char State offical language[100];
       public:
              State(char name[] , char capital_city[] , char offical_language[])
                      strcpy(this->State name,name);
                     strcpy(this->State capital city,capital city);
                      strcpy(this->State offical language,offical language);
              void getData()
                     cout <<"~> Name: "<<this->State_name <<endl
                             <<"~> Capital city: "<<this->State capital city <<endl
                             <<"~> Offical language: "<<this->State_offical_language <<endl
<<endl;
};
int main()
{
       State s1("Assam", "Guwahati", "Assamese");
```

```
State s2("Gujarat","Gandhinagar","Gujarati");
State s3("Arunachal","Itanagar","English");
s1.getData();
s2.getData();
s3.getData();
return 0;
}
```

Output:

Practical-3

<u>Aim:</u> WAP to create a class which Set values of data members using default and parameterized constructor.

Program:

```
#include<iostream>
#include<string.h>
using namespace std;
class State
  private:
              char State name[100];
              char State capital city[100];
              char State_offical_language[100];
       public:
              State(char name[], char capital city[], char offical language[])
                     strcpy(this->State name,name);
                      strcpy(this->State capital city,capital city);
                      strcpy(this->State_offical_language,offical_language);
              }
              State ()
              void getData()
                     cout <<"~> Name: "<<this->State name <<endl
                             <<"~> Capital city: "<<this->State capital city <<endl
```

```
<<"~> Offical language: "<<this->State_offical_language
                              <<endl
                                         <<endl;
              }
};
int main()
       State s1("Assam", "Guwahati", "Assamese");
       State s2("Gujarat", "Gandhinagar", "Gujarati");
       State s3("Arunachal", "Itanagar", "English");
       State s4;
       s1.getData();
       s2.getData();
       s3.getData();
       s4.getData();
       return 0;
}
```

Output: