```
Lab Task-3
# include Liostream >
                           (Lis -> mame = mame;
# include < cstring>
using namespace std;
Class
class Person
                               string get Name ()
private:
                                  return mame;
       string name;
        int age;
                                    () setting to
public:
      Person ()
                                   return age;
    cout << " Empty Constructor "xx end 1;
                                   () IIA WOME BIOV
      Person (string name, intage)
             " I bres >> smeare >> " I pme sil" >> hos
     cout <<" Parameterized Constructor" <<endl;
       this -> name = name;
       this -> age = age;
```

```
void setAll (string name, intage)
                              of include xiostream >
                               * include contring>
    this -> name = name;
                           the management primi
    this -> age = age;
                                   class Person
 string getName ()
                                          · spring
  return name;
                             : Discour finists
 int getAge ()
                                        : Dilden
                                    () moores
   return age;
                coutex" Emply Constructor "xx cord);
 void show All ()
             Penson (string morne, int age).
  cout << "Name: " << name << end!;
  cout << "Age: " << age << end!
```

```
class Teacher: public Person
   doubte
private:
      double salary;
public:
     Teacher ()
                             Penson: : show All ()
      cout << " Empty Constructor" < cond!
      Teacher (string name, intage, double salary): Person(name use)
       cout x "Parameterized Constructor" x end;
       this -> salary = salary;
                                    water dece
       roid set All (string name, intage, double salary)
       per Person :: set All (name, age);
          this -> salary = salary;
```

```
double getSalary ()
return salary;
void showAll ()
                                        : oldog
 Person :: show All ();
 cout << "Salary: " << salary << end);
teacher (sining many, int age, double salans);
class Student: public Person
                  this -> salary = salary =
    double capa;
  ne slelieb . aga bel comor grints) UA las Al
 public:
  Student (). (Spr. second) MA to !! coars? The
   coutex "Empty Contractor" xxend1;
```

```
Student (string name, int age, double capa): Person (name, age)
cout << "Parameterized Constructor" < xendl;
  this -> capa=capa;
void set All (string name, int age, double capa)
 this -> capa = capa; (HS "bidA") 11A/sa, 19
  Person: set All (name, age); small > 100
cout ex "Age: " x = potAge () exemal)
                            pl, skdo All ();
double get CGPA ()
  return ogpa; ((ds "bivos") sq mosage
cond / "Heme ; " < m ps. get Name () < end [ ]
void swipAll () spaleging >> " 1 oga" >> hos
                    22.500 All () Para 8235
 Person: showAll ()
  Person : showAll ();
```

```
contx " CGPA: " xx cgpa xx end!
          cout < " Parameterised Constructor" x endly
 1
                              this -> egpa = egpa;
 int main ()
 ( Sans aldrob see frei seens grints) 1/Ales bier
  Person P1;
  P1, set All ("Abid", 24); 1980 = 1990 ( dut
  cout << "Name ! " << @1 p1.getName () << end );
  cout << "Age: " << p1.get Age () << end );
  p1. show All ();
                              double get CGPA()
  Person 'p2 ("Zavid", 26);
                                 return offer;
  cout << "Name: " << ma. p2. get Name () << end ;
  cout << "Age: " << p2, get Age () << end );
  p2 . Show All ();
                               Person : doesn't !!
```

Teacher ti, 21.8 (se divor) so trobota t1. set All ("Hawking", 40, 50000); cout << "Name: " << t1. get Name () end <<end); cout << "Age : " << t1. get Age () << end]; cout << " salary : " << +1, get Salary () << end] +1. Show All (); SE SKONSHI (); Teacher t2 ("Tesla", 35, 10000); cout xx "Name: " xx t2.get Name()xx end); cout << "Age: " << to. get Age (<< end); cout << "salary: "<< tz. get Salary () <<end); tz. Show All ();

Student 8 51;

51. setAll ("Akib", 21, 3.85);

cout << "Name: " << 51.get Name() << end!;

cout << "Age: " << 51.get Age() << end!;

cout << "CGPA: " << 51.get GGPA() << end!;

51. \$ show All ();

Student 62 ("Rakib", 22, 3.75); 13/19/19/ cout << "Name! " << \$52.8 et Name () << end! cout << " Age : 4 << s2.get Age () << end]; cont << "CGPA: "KSZ.get CGPA() << end] S2. ShowAll(). sz. showAll (); Teacher to ("Tesla", 35, 10000); count << "Marme ; " << 12. get Marme (xx end); nout x< "Age : " xx to get Age () xx eswill : 20 cood << "Salary : " < to get Salary () << endly to. show All (); the & feeplets 51 set All ("Akib" 21. 3.85")] " (18/5) Throws () event toget > > " Stown" > tooo 16000 22 () 20 Alat to 22 " " 20 May 20 () 22 extens "out << " C.G.P.A: " << 52 det CG.P.A () 22 End () () IIA words 2 - E3