```
class Animal {
                                                      Animal
 Public:
   string name;
 Public:
  Animal (string name = " "): name (new_name) {};
   sound();
  }
class Dog: public Animal f
   Public:
                                                D09
                                                  type:
     String type;
                                                  Animal
   Public:
                                                    name;
     Dog (string new_name = " ");
     Sound ();
  int main () }
                                             KOKCTPYLTOP61:
    Dog Bobik ("Bobik"); // Dog ("Bobik");
                                               Animal();
                                               Dog ("Bobik");
    Dog usname
                         11 Dog (0);
  При создании объентов неявно вызывается конструктор
   POGLITERA (KOTOPGIJ JES OLPZYMENTOS)
    业
   Если есть коспедования, нумно создавачь ионструкторы
ECAU HEODROGUENO BORBERSO LEONLEPERNOLE KONCIPYLITUP, TO:
                                                 GE3 APTYMEHTOB.
  Closs Dog: public Huimal &
     PUBLIC:
        string type;
       Dog (string new_name = " "): Animal (new_name) {};
     Sound ();
```

Ozpakururan gocsyna:

public — доступну снаруми класса Protected - доступны снаруми класса Private — доступны только изнутри класса

```
Hochegobarene
Class Dog: public Animal {
   Public => public
                      E UZMERENUL GOCTYNO
    Protected => protected
                           При наследовании
    Private => negoctynen >
Class Dog: Private Animal {
   Public => private
                         Uzuereeue Jocqyna
  Protected => private
                           uper kacregosessum
   Private => Hegoayum.
Class Dog: Prosected Animal {
   Public => protected
                        Claurenence goetyna
   Protected => protected
  Private => negociynen )
                        upel roungobonus.
  Dog
    Animal
     Private
     Public
  можно в нашедии переписать урожение доступа
  (Fear voix met, 70 u nepenucosto mesosa, F. e. private)
  Class Dog: Public Animal {
    Public:
      string type;
    public:
      Dog (sering new-name = n n);
    protected;
      Using Animal:: sound; // ulpernemen na projected ypobling gottyno 6 Dog
                              K Merogy sound();
CORPOTUL WILL Ygaverere lilmero deprenguoscaria
 Mb1 nomene cup6176 (4ganere76) rectog upre november uno recors avoca beleve
 Class Doy; public Animal {
    public ;
      string type;
   public.
      Dog (String neul name = " ");
     Sound ()=delete; // CVPYANU MOTOGUS KNOCCO DOG.
```

```
Dog
          Animal
          Private
          Public
 Dog Bobik ("Bobiu")}
   Animal creature ("x305")}
     Creature = BOBIK; 11 & representation creature champyeral was
                          repensarion bobin, kotopan ortscutch in Antimal
   Dog Boblu ("Bobiu");
  Animal * creaxure 01 = & BOBIX;
  Auswal & creature 02 = BOBIN;
      BOBIL. sound (); // BUBUROUTER SOUND() up Dog
      Creature O1 -> sound(); 1/ BU361BOOTCL Sound() uz Animal
      creature 02. Found (); // 86/306e1ce sound () us Animal
   Void sound-three_times (Animal &Creature) {
      Creature sound(); // 66308 sound() Trupoza uz Animal
      creature. sound ();
      creature. sound();
Mours uperesoruss yraqueres prayers propries na obsens bog)
  Dog Bobik ("Bobik");
  Autwork *creoque 2 & coole;
  (dynamic_cast < Dog*>(creature)). sound)}
"Notunia pure upusegence Tunos" B613618alth Sound() us evacca Dog
 Class Animal {
    Public:
     string name;
```

Animal (string new_name = "): voue (new_name) {};

Public:

```
class Dog: public Animal g
 Public:
   String type
 Public:
   Dog (string new_name = " ");
   Sound();
Void sound_three_times (Animal & creature)
                                                   Dog => sound god Animal
   creature, sound ();
   creature. sound (); creature. sound ();
                                                  Were egence To Tous, crocks Bbis 46 enlace
                                                  gynagus y wacca Dog ?
                                                 Нуния объевиль ОР всертуальный
Class Animal &
  Public:
   String name;
  Public :
    Animal (string new_name = " "); name (new_name) {};
  Virtual sound();
Svoid Run();
                                                        odseur unacca Dog
Closs Dog: public Animal {
                                                              Virtual
                                                   Dog
                                                               dunctions
   Public :
                                                   Void Runn
     string type;
                                                               sound()
                                                       Animal
   Public:
                                                       void run()
      Dog (String new_name = "");
    Virtual sound OverRige
 } void Run ();
        | ECAU PYTEURILL OUTEGENERICE VAN BELFIGOUSTEAN, 10 ORA
            должено оботь вирупленой увсех поточнов.
    BUPTYONESHER PYSEREGUE 7TO VOJERER CLOSERCONUR
    DECTPYNTOPOL GORMAGI SOITG BUPTGANGHOIMU, ECAU ECTG KOCHEDOBOKUE
  final - sampluseex 8 garbnemen ranlegotes mace unerconfiguras
  Oynxyeers
   Virtual sound() override final;
                         Janoure neprompegaliero de Helisa.
  Class Doy final: Public Animal &
               . Нельзя создаваль коследников жосса Dog.
```

```
ASCAPOLATHER ELECCH:
 Ugel unreprenca: by memere, 200 whace garner galan ( merogol, cur pudyou)
                    в виде иода - кой расболий (помпилируется), но без фантитеской
                                                                  Planusayuu
  Class I Animal &
     Public:
       String get_name (). {};
       Virtual void sound () = Ø; // Фуккция является себстраньной
  Абстраняний месте - кисес, у погорого всяв хотя бы одна абстраняная ф-я.
     Объекты обстроит кого инасса не бодоготах (отновка компилеции)
   Class Animal: Public I Animal &
   MHOMECTBERNOE HACKEGOBAKUE:
 Class Animal &
   String wave;
                                             Animal
                                                            Animal
Class tiger: public Animal &
                                             Liou
                                                            Tiger
Class Lion: public Animal {
                                                   Liger
Class Liger: public Lion, public Tiger &
                                            Liger
                                             lion
                                                        Tiger
                                              Animal
                                                       Animal
  Mpo Liene
                                                        name
                                              name
1) DEC FLEWENTA Animal Engipe unacca
2) Dea ogienausoux vala tail_length
```

Perence Operando Form, 29000 per consequence of the Perence of the Perence Operand of the Perence Operand of the Perence Operand (u books programmi)

Class Animal & skiing name; int tail-langth;

```
Tiger: virtual public Animal &
Class Lion: virtual public Animal &
Class Liger: public Lion, public Tiger {
                               Виртуальный базовый иласс"
                      Tiger
    Liou
            Liger
    Class Animal &
      String name;
      Int tail-length;
   Class Tiger: virtual public Animal &
                                                    Liger
                                                      Lion
                                                                    Tiger
  'Class Lion: Virtual public Animal &
                                                            Anima
 Class Liger: Public Lion, Public Tiger &
 }
   Друмественные Фукации и пресси
    closs Graph &
     Private:
       Node * Roof;
     Public
      Node * Search (Node *node);
    class Node &
     Private
       Void * dove;
      Std: list < Node +> neighbors;
      Aslend class Graph; // Tenepoling whocco Graph Sygner august want wacea Node.
                           T. e 200 voztu kak ogun knacc
     driend - gryman ogrze roponna
```

```
Mode is Friend of Groph
                           , HO HE MODESTOF. US Node private Mesoger a would Graph
      A - friend of B
      B- friend of C
        A - He gryz C
     Class Graph &
       Private:
         Nodex root;
       Public:
         Node * search (Node *node);
    5
                                             Merog gryn Kracca Node,
    Closs Node &
                                             T. R. Uz nero gottymolu
     Private:
                                             private vous Node.
        Void *data;
        Std: list < Node*> weighbors
       driend Node* Graph : Search (Node* node);
     AMOHUMHBIE OFFEKTEI
     Dog ("Bolik"); // Co3garuse anosuemeno observa
     Dog BOBIN = Dog ("BOBIN");
     Dog ("Bobix"). sound);
      HacnegoBanue:
    O Mogupuxaropes gocsqua upu nachegobarum (PUBLic; Private; Protected)
   В Порядок вызова конструкторы при наследовании
   В Поредок вызова Реструкторы при наследовании
   (9) Nobbilicarouse upulageouse Turol ( & Kaciegnery)
  (5) Nomemorare upusegence Turos ( a pogurceso.)
  6 Objesua observus (animal = dog);
  O vistual metopy (vivtual gecopyurup)
 8 descripantinus wasc (unterpense)
(9) множественных наследование (виртуальные массы)
(10) Друпественные методы и друшественных классы
```