PRG1 - przykładowe zadania na kolokwium:

Zadanie 1.

Podaj wynik działania programu:

```cpp
#include „stdafx.h"
#include <iostream>
#include <conio.h>
using namespace std;
int F(int, int, int);
int main()
{
  int y = 1, a=17, b=7, i;
  for (i = a/2; i >= b-2; i--)
  {
    switch (i%3)
    {
      case 0 : {y = y+1; break;}
      case 1 : {y = y-1; break;}
      case 2 : {y = F(i,b,y); break;}
    }
    cout << "y = " << y << endl;
  }
  _getch();
  return 0;
}
int F(int a, int b, int c)
{
  if (a > b/2) return (c+2);
    else return (c-2);
}
```

Zadanie 2.

Podaj wynik działania programu:

```cpp
#include „stdafx.h"
#include <iostream>
#include <conio.h>
using namespace std;
int main()
{
  int i, s=0;
  int x[5]={0,0,0,0,0}, y[5]={0,0,0,0,0};
  for (i = 0; i < 5; i++) x[i] = i;
  y[0] = 0;
  i = 4;
  while (i) { y[i] = x[i]/2; i--;}
  for (i = 0; i < 5; i++)
  s = s + x[i]*y[i];
  cout << "s = " << s << endl;
  _getch();
  return 0;
}
```

Zadanie 3.
        Podaj wynik działania programu:

```cpp
#include „stdafx.h"
#include <iostream>
#include <conio.h>
using namespace std;
int a;
void P(int, int, int &);
int main()
{
  int b=3, c=2;
  cout << "a = " << a << "\tb = " << b << "\tc = " << c << endl;
  P(a,c,b);
  cout << "a = " << a << "\tb = " << b << "\tc = " << c << endl;
  _getch();
  return 0;
}
void P(int d, int e, int &c)
{
  int a;
  a = c-1;
  e = d-c+1;
  c = c%2;
  cout << "a = " << a << "\te = " << e << "\tc = " << c << endl;
}
```

Zadanie 4. .
        Podaj wynik działania programu:

```cpp
#include „stdafx.h"
#include <iostream>
#include <conio.h>
using namespace std;
int main()
{
  int i = 5, s = 0;
  int x[5] = { 0,0,0,0,0 },
      y[5] = { 0,0,0,0,0 };
  int *ws, *wx, *wy;
  ws = &s; wx = x; wy = y;
  do
  {
    *wx = 5 - i;
    if (*wx%3) *wy = -*wx/3;
      else *wy = 0;
    *ws = s - *wx*(*wy);
    wx++; wy++; i--;
  }
  while (i);
  cout << "s = " << s << endl;
  _getch();
  return 0;
}
```