MCS Programmer Evaluation

Please review the sample "C" program below and answer the following questions.

```
#define RO OFF 0
#define RO ON 1
#define Temp Sensor
                         0
#define Pressure Sensor 1
#define Max Sensors
                         2
#define Temp control
                         08x0
#define Pressure control 0x00
Byte control bit = 0x3F;
Byte control mode;
Byte relay_output[2] = {RO_ON, RO_OFF};
Byte *control mode pointer;
Struct
{
      Byte type;
      Int
            value;
}sensor[Max Sensors];
for (loop=0; loop<Max Sensors; loop++)
      sensor[loop].type
                         = loop;
      sensor[loop].value = 50 * (loop+1);
}
if ((control bit & 0x80) == Temp control)
      control mode = Temp control;
else
      control_mode = Pressure_control;
control_mode_ptr = &control_mode;
```

1.	What is the value in control mode after the program runs?
2.	What is the value in sensor[0].type?
3.	What is the value in sensor[1].value?
4.	What is the value of relay_output[0]?
5.	Write a statement to test relay_output equal to ON.
6.	What is the value of "*control_mode_ptr"?

7. What is the value of "control_mode_ptr" ?