" Programming " \* Lecture 6 \*

## Look at Exercise 8 in Sheet 2:

# include < iostream.h>
main()
{ int n = 2;
Switch(n)
} Case 2: Caut < "

{ Case 2: Cout << "ZZZ/n"; Case 3: n=n\*5; Cout << "AAA\n";

break:

Case 4: n=n/2; Cout < "BBB\n"; Case 5: n=n%2; Cout < "CCC\n";

Case 5: n=n%2; Caut << "CCC\n";

default: Caut << "ODD\n"; }}

# include < iostream.h >

 $\{ int n = 3; \\ Switch (n) \}$ 

{ Case 2: Cout < "ZZZ\n";

Case 3: n=n+5; Cout <<"AAA\n";

Case 4: n = n/2;

default: Cout << "DDD In";

break; 33

\* Offerent forms of it statement:

- Write aprogram which expresses this equation:

$$\mathcal{J} = \begin{cases}
5 - \chi^2 & \chi > 0 \\
2\chi^3 & \chi < 0
\end{cases}$$

ZZZ

# include < igstream hs

AAA () circle

BBB

7 Deeni

CCC

DOO

his equation:

```
# include < iostream.h>
 - program.
              # include < math. h>
              main ()
              { int d,y; Cin>>d;
                 if (x > = 0)
                 y = 5 - pow(x,2);
                 y = 2 * pow(x, 3);

cont << y="<< j; }
    Another Shape of if statement: C = Condition? ___:

where: ? means if

means else.
  So, the previous program can be written as:
        # include < iostream.h>
        # include < math.h>
         main () AAA
        { int a, y; 888
         Cin >> 2;

y = (\alpha > = 0)? 5 - pow(\alpha, 2): 2*pow(\alpha, 3);

Cent < "y = " < y;
                    * Looping Statement * for, while, dowhile.
-for loop: - for (initial value; Condition; Counter)

@ Court.
* Example: for (i=1; i = 10; i++)

Cout < i < endl;
```