```
(31 => Switch Statements in C
Synba:
 switch (expression) intiger or character value as
   case value 1:
      Block of statements 1;
      busk;
  case value 2:
       Block of slatements 2;
        break;
       difault:
          default statements;
        statement x;
```

Biogramin

Void main() int a; point ("Enter a: \n"); scary (" 1.d", &a); switch (a) case 1: joint ("JK"); break;

Last 2: print ("Jenny") Blora 2 breaks default: pring ("Bge"); out quita purty 1" ow of switch ... "); Priogram (3) Program: (5). 1 switch (at btc). void maine). Program (4) int a; point ("Enter a: In"); 1/ switch(1+2\*3/4) scanf ("/d", &a); Program (5) switch (a \* 6) pswotch (a+b) case 1: ("JK"); Evouor) break; Prugram 6 case 2: pointy ("Jenny"); 11 break; break; Program C default: prints ("Bye");

y parts ("Bye");

y \_ ye; bury onder 11 case 3 1 11 Case 2: 11 Case 5: Enter a: 5 possed By rout of Switch

\* swatch is only used to check Equality Condition . \* switch cannot Company Relational Condition like > 4, 2, 5 \* switch can take integer or character Constants -Pragram 8 / chan c='a'; switch (c) " Case 'a': point !" small case 'a'");
bruck;
Case b': jounty 1" small ase b"); default: pounty (" Not a Small case letter"); jointy ("out of Dwitch statements");

Enten c=b Small case b out of switch.

Now chant: (Switch enjournment) Yes Southfull I brink in ignal to can water NO in ign yer of collined Co Con whit No Yes [ Code defit) Statement X defaut Program 9; Tochick entired character is vowel? chan c;
paint ("Enter c:1");
scarf ("1.c", & c); switch (c) case 'a': Rasi le: case 'i':
case 'o':

```
purif (" vowel");
       dyfault:
        " wirlf I "Not vowel");
    90
   Enter c: a
   would
Priogram 10:
of marks >80,>70,>60,>50 put A,B,C,D
grade using switch statement.
   Void maint)
   int mooths;
     pointy (" Enter marks: In");
      scarf ("1.d", & marks);
      switch (marks/10)
        Case 10:
        Case 9:
        Case 8:
        poorty ("egrade A");
break;
```

Case 7: pounts (" grade B"); week: pointy ("grade ("); break; difault: printy (" Grade D"); point 1" out of switch --- 1 n"? marks => 8: 100 => 10 Enter marks: 9 egrade A 90 => 9 (an 9) 80 => 8 (an 8) 70 => 7 (an7) 74 => 7 (an7) 65 => 6 (Case 6) 52 => 5 (dyault)

## CODE 1:

```
#include <stdio.h>
2
     #include <stdlib.h>
3 /* 1 switch */
4
    int main()
6
         int a;
7
         printf("Enter value:\n");
8
         scanf("%d", &a);
9
         switch(a)
10
11
         case 1:
12
         printf("Pandian..\n");
13
          break;
         case 2:
14
15
          printf("Thangam..\n");
16
          break;
17
         default:
18
          printf("Others...\n");
19
20
        printf("Out of switch statement...\n");
21
        getch();
22
        Logs & others
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PARI

```
Enter value:
2
Thangam..
Out of switch statement...
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jeni

```
Enter value:
4
Others...
Out of switch statement...
```

## CODE 2:

```
#include <stdio.h>
 1
     #include <stdlib.h>
 3 /* 2 switch */
 4
     int main()
 5
   ₽{
 6
         int a;
7
         printf("Enter value:\n");
         scanf ("%d", &a);
8
         switch(a*1) //switch with expression
9
10
11
12
          printf("Pandian..\n");
13
          break;
14
         case 2:
15
          printf("Thangam..\n");
16
17
         default:
18
          printf("Others...\n");
19
20
        printf("Out of switch statement...\n");
21
        getch();
22
         Logo Or others
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAM

```
Enter value:
2
Thangam..
Out of switch statement...
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART

```
Enter value:
3
Others...
Out of switch statement...
```

#### CODE 3:

```
1
     #include <stdio.h>
     #include <stdlib.h>
 2
    /* 3 switch */
 3
 4
    int main()
 5
   □ {
 6
         int a,b,c;
 7
         printf("Enter values:\n");
8
         scanf("%d%d%d", &a, &b, &c);
9
         switch(a*b+c) //switch with expression
10
11
         case 1:
12
          printf("Pandian..\n");
13
          break;
14
         case 2:
15
         printf("Thangam..\n");
16
          break;
17
         default:
18
          printf("Others...\n");
19
20
        printf("Out of switch statement...\n");
21
        getch();
22
         Logs & others
23
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jenny

```
Enter values:
1
1
1
Thangam..
Out of switch statement...
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Le

```
Enter values:
2
1
1
0thers...
Out of switch statement...
```

## CODE 4:

```
#include <stdio.h>
 1
     #include <stdlib.h>
 2
 3
     /* 4 switch */
 4
     int main()
 5
    □ {
 6
         //int a,b,c;
 7
         //printf("Enter values:\n");
 8
         //scanf("%d%d%d", &a, &b, &c);
 9
         switch(1*2+4/2) //switch with only integer expression
10
11
         case 1:
12
          printf("Pandian..\n");
13
          break;
14
         printf("Thangam..\n");
15
16
          break;
17
         default:
          printf("Others...\n");
18
19
        printf("Out of switch statement...\n");
20
21
        getch();
22
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures

```
Others...
Out of switch statement...
```

```
#include <stdio.h>
 1
 2
      #include <stdlib.h>
      /* 4 switch */
 3
 4
     int main()
 5
    ₽ {
 6
          //int a,b,c;
          //printf("Enter values:\n");
//scanf("%d%d%d",&a,&b,&c);
 7
 8
          switch(1*2+4/2) //switch with only integer expression
 9
10
          case 4:
11
12
           printf("Pandian..\n");
13
           break;
14
          case 5:
           printf("Thangam..\n");
15
16
           break;
17
          default:
           printf("Others...\n");
18
19
20
         printf("Out of switch statement...\n");
21
         getch();
22
          Logo 9, othors
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAM

```
Pandian..
Out of switch statement...
```

## CODE 5:

```
2
      #include <stdlib.h>
 3
      /* 5 switch */
 4
     int main()
 5
 6
           int a;
 7
           float b;
 8
           printf("Enter values:\n");
 9
          scanf("%d%f", &a, &b);
10
          switch (a+b) //switch cant hold float values, it can hold only int and char
11
12
          case 1:
13
          printf("Pandian..\n");
14
           break;
15
          case 2:
           printf("Thangam..\n");
16
17
           break;
18
          default:
19
           printf("Others...\n");
20
         printf("Out of switch statement...\n");
21
22
         getch();
23
               Logs & others
24
Logs & others
🛂 🖊 Code::Blocks 🗶 🔍 Search results 🗶 🧗 Cccc 🗶 🛟 Build log 🗶 🥀 Build messages 🗶 🥻 CppCheck/Vei
File
              Line Message
                    === Build: Debug in 5_switch (compiler: GNU GCC Compiler) ===
D:\1. COMP...
                    In function 'main':
D:\1. COMP... 10
                    error: switch quantity not an integer
D:\1. COMP... 22
                    warning: implicit declaration of function 'getch'; did you mean 'g...
                    === Build failed: 1 error(s), 1 warning(s) (0 minute(s), 0 second(...
```

## CODE 6:

```
#include <stdio.h>
1
2
     #include <stdlib.h>
     /*6 switch */
 3
 4
     int main()
 5
   □ {
 6
         int a;
7
         printf("Enter value:\n");
8
         scanf("%d", &a);
9
         switch(a)
10
11
         case 2: //case values can be in any order
12
          printf("Pandian..\n");
13
          break;
         case 1: //case values can be in any order
14
15
          printf("Thangam..\n");
16
          break;
17
         default:
18
           printf("Others...\n");
19
20
        printf("Out of switch statement...\n");
21
        getch();
22
                                Logs & others
```

| ■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jer

```
Enter value:
2
Pandian..
Out of switch statement...
```

### CODE 7:

```
#include <stdio.h>
1
2
     #include <stdlib.h>
3
     /*7 switch */
     //break is necessary to terminate the switch case, True means use break
4
5
     //If no break then all switch cases will be executed....
6
     int main()
7
   ₽{
8
         int a;
9
         printf("Enter value:\n");
10
         scanf("%d", &a);
11
         switch(a)
12
13
         case 2:
14
          printf("Pandian..\n");
15
          //break;
16
         case 1:
          printf("Thangam..\n");
17
18
          break;
19
         default:
          printf("Others...\n");
20
21
22
        printf("Out of switch statement...\n");
23
                                                Logs & others
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 3\_JENNYS LECT

```
Enter value:
2
Pandian..
Thangam..
Out of switch statement...
```

# CODE 8:

```
1
     #include <stdio.h>
2
     #include <stdlib.h>
     /*7 switch */
3
     //break is necessary to terminate the switch case, True means use break
4
5
     //If no break then all switch cases will be executed....
6
     int main()
7
8
         int a;
9
         printf("Enter value:\n");
10
         scanf("%d", &a);
11
         switch(a)
12
13
         case 2:
14
          printf("Pandian..\n");
15
          //break;
16
         case 1:
17
          printf("Thangam..\n");
18
          //break;
19
         default:
20
          printf("Others...\n");
21
22
        printf("Out of switch statement...\n");
23
        getch();
                                                 Logs & others
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectu

```
Enter value:
2
Pandian..
Thangam..
Others...
Out of switch statement...
```

## CODE 9:

```
#include <stdio.h>
 1
     #include <stdlib.h>
 3 /* 8 switch */
 4
     int main()
 5
   □ {
 6
         char c;
 7
         printf("Enter value:\n");
 8
         scanf("%c", &c);
 9
         switch(c)
10
11
         case 'a':
12
          printf("Smaller case a...");
13
          break;
         case 'b':
14
15
          printf("smaller case b....");
16
          break;
17
         default:
18
          printf("Other letter....");
19
          break;
20
21
     getch();
22
```

"D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lec Enter value: a Smaller case a...

"D:\1.COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAM
Enter value:
d
Other letter....

## **CODE 10:**

```
#include <stdio.h>
2
     #include <stdlib.h>
 3 /* 9 switch */
     /* Vowel or not */
 4
 5
     int main()
7
         char c;
8
         printf("Enter values:\n");
         scanf("%c", &c);
9
10
         switch(c)
11
         case 'a':
12
13
         case 'e':
         case 'i':
14
         case 'o':
15
16
         case 'u':
17
          printf("Vowel...\n");
18
          break;
19
         default:
20
          printf("Not Vowel...\n");
21
       printf("Out of switch....\n");
22
23
       getch();
                                                Logs & others
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C

```
Enter values:
e
Vowel...
Out of switch....
```

■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Le

```
Enter values:
d
Not Vowel...
Out of switch....
```

## **CODE 11:**

```
#include <stdio.h>
     #include <stdlib.h>
 3 /* 10 switch */ //Put grade for marks....
 4
     int main()
 6
     int marks;
 7
      printf("Enter marks:\n");
 8
     scanf("%d", &marks);
 9
    switch (marks/10)
10
   ₽{
      case 10:
11
12
      case 9:
13
      case 8:
       printf("Grade A...\n");
14
15
       break;
      case 7:
16
17
       printf("Grade B...\n");
18
       break;
19
      case 6:
20
      printf("Grade C...\n");
21
      break;
22
      default:
23
      printf("Grade D...\n");
24
     }
25
     printf("Out of Switch...");
26
     getch();
27
     }
28
```

## ■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAM

```
Enter marks:
100
Grade A...
Out of Switch...
```

```
■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jer
Enter marks:
84
Grade A...
Out of Switch...
"D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jer
Enter marks:
73
Grade B...
Out of Switch..._
 ■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS
Enter marks:
64
Grade C...
Out of Switch..._
 ■ "D:\1. COMPUTER NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Je
Enter marks:
54
Grade D...
Out of Switch..._
```