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switch - case :- **multiple choice**

syntax

switch (variable)

{

case 1 : statements

- _____

break;

case 2 : statements

- _____

break;

case 3 : statements

break;

.

case n : statements

break;

default : printf(" INVALID CHOICE \n ");

}

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case VARIABLE --> integer , char

case 1 :

case 'a' :

case 3.2 : float ----> X

PRINT → 1. monday

.
7 . sunday

#include<stdio.h>

int main()

{

int d;

printf(" ENTER CHOICE (1 - 7) \n ");

scanf("%d", &d);

switch (d)

{

case 1 : printf(" MONDAY ") ; break;

case 2 : printf(" TUESDAY ") ; break;

```
        case 3 : printf(" WEDNESDAY " ); break;
        case 4 : printf(" THUSDAY " ); break;
        case 5 : printf(" FRIDAY " ); break;
        case 6 : printf(" SAT " ); break;
        case 7 : printf(" SUN " ); break;
    default : printf(" INVALID CHOICE \n " );
}
} // switch
```

2. PRINT 0. ZERO 1. ONE9. NINE

```
#include<stdio.h>

int main()
{
    int d;
    printf(" ENTER CHOICE BETWEEN 0 TO 9 \n ");
    scanf("%d", &d);

    switch (d)
    {
        case 0 : printf(" ZERO "); break;
        case 1 : printf(" ONE " ); break;
        case 2 : printf(" TWO " ); break;
```

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```
        case 3 : printf(" THREE " );    break;
        case 4 : printf(" FOUR " );    break;
        case 5 : printf(" FIVE " );    break;
        case 6 : printf(" SIX " );    break;
        case 7 : printf(" SEVEN " );   break;
        case 8 : printf(" EIGHT " );   break;
        case 9 : printf(" NINE " );    break;
        default : printf(" INVALID CHOICE \n " );
    } // switch
}
```

3. MENU DRIVEN AIRTHMATIC OPERATION

```
#include<stdio.h>
int main()
{
    int a , b , c , d;
    printf(" ENTER TWO NOS \n " );
    scanf("%d%d", &a, &b);
    printf(" MENU \n " );
```

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```
printf(" 1. ADD \n" );
printf(" 2. SUB \n" );
printf(" 3. MUL \n" );
printf(" ENTER CHOICE \n ");
scanf("%d", &d);

switch (d)
{
    case 1 : c = a + b ;
        printf(" SUM = %d\n " , c);
        break;
    case 2 : c = a - b;
        printf(" SUB = %d\n " , c);
        break;
    case 3 : c = a * b ;
        printf(" MUL = %d\n " , c);
        break;
    default : printf(" INVALID CHOICE \n ");
}
} // switch
```

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INFINITE LOOP

1. while (1) // NON - ZERO --> TRUE
 2. for(;;)
-

PROGRAM TERMINATION

exit(0) ---> stdlib.h

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
    int a , b , c , d;
    printf(" ENTER TWO NOS \n ");
    scanf("%d%d", &a, &b);
    while(1) // infinite loop
    {
        printf(" MENU \n ");
        printf(" 1. add \n ");
        printf(" 2. SUB \n " );
```

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```
    printf(" 3. MUL \n");
    printf(" 4. EXIT \n");
    printf(" ENTER CHOICE \n ");
    scanf("%d", &d);

    switch (d)
    {
        case 1 : c = a + b ;
                    printf(" SUM = %d\n " , c); break;
        case 2 : c = a - b;
                    printf(" SUB = %d\n " , c); break;
        case 3 : c = a * b;
                    printf(" MUL = %d\n " , c); break;

        case 4 : exit(0); // stdlib.h

        default : printf(" INVALID CHOICE \n ");
    } // switch

} // while
```

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5. MENU DRIVEN PROGRAM FOR AITHMATIC OPERATION

```
#include<stdio.h>
#include<stdlib.h>
int
{ int a, b, c ;
    char d;
    printf(" ENTER TWO NOS \n "); scanf("%d%d", &a, &b);
    while(1) // infinite loop
{
    printf(" MENU \n "); printf(" +' \n ");
    printf(" '-' \n ");
    printf(" '*' \n ");
    printf(" 'E': EXIT \n");
    printf(" MENU \n "); printf(" +' \n ");
    printf(" '-' \n ");
    printf(" '*' \n ");
    printf(" 'E': EXIT \n");
    printf(" ENTER CHOICE \n "); fflush(stdin);
    scanf("%c", &d);

    printf(" ENTER CHOICE \n");
    fflush(stdin);
    scanf("%c", &d);
```

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```
switch (d)
{
    case '+' : c = a + b ;
        printf(" SUM = %d\n" , c);
        break;

    case '-' : c = a - b;
        printf(" SUB = %d\n" , c);
        break;

    case '*' : c = a * b;
        printf(" MUL = %d\n" , c);
        break;

    case 'E' : case 'e' : exit(0); // stdlib.h

    default : printf(" INVALID CHOICE \n " );

}

} // switch
} // while
```

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6. WAP FOR CHECK INPUT CHARACTER IS VOWEL OR CONSONENT.

```
#include<stdio.h>
int main()
{
    char d;
    printf(" ENTER CHARACTER \n ");
    scanf("%c", &d);
    switch (d)
    {
        case 'a' :case 'e' :case 'i' :    case 'o' : case 'u' :
        case 'A' : case 'E' :  case 'I' : case 'O' : case 'U' :
            printf(" VOWELS " ); break;
        default : printf(" CONSONENT \n " );
    }
}
```

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