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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;
```

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```
        case 3 : printf(" WEDNESDAY " ); break;
        case 4 : printf(" THURSDAY " ); 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. ONE .....9. 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
}
```

## **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

}
```

## 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 " );

    }
}
```

