

Branching and Loops

if
else
for
while
do while
switch

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If condition

```
if(true)
{
    //code here
}
else
{
    //code here
}
```

```
if(true)
{
    //code here
}
else if(true)
{
    //code here
}
```

switch case

```
switch(option)
{
    case 1:
    case 2:
    case q:
    default:
}
```

for loop

```
for (initialisation ; test condition ; updation)
{
    //code here
}
```

while loop

```
while (true)
{
    //code here
}
```

do while loop

```
do  
{  
    //Code here  
} while(true)
```

Data types

Arduino Data Types	Value Assigned	Value Ranges
boolean	8 Bit	True or False
byte	8 Bit	0 to 255
char	8 Bit	-127 to 128
unsigned char	8 Bit	0 to 255
word	16 Bit	0 to 65535
unsigned int	16 Bit	0 to 65535
int	16 Bit	-32768 to 32767
long	32 Bit	-2,147,483,648 to 2,147,483,647
float	32 Bit	-3.4028235E38 to 3.4028235E38