

1. flutter is an open source software development kit created by google.

it allows development of cross platform application from a single codebase

(Android,IOS,Web application,...).

the main advantage of choosing flutter is time saving as it allows development

for more than one platform at the same time instead of developing seperate applications

for each platform.

the widget-based design allows for highly flexible ui.

huge community for support and a variety of packages to use.

2.

if: used for decision-making based on conditions.

example:

```
int age = 18;
```

```
if(age >= 18)
```

```
print("adult");
```

```
else
```

```
print("minor");
```

for: used to iterate over a range or collection based on number of iterations.

example:

```
for (int i = 1; i <= 5; i++)  
{  
    print("Count: $i");  
}
```

while: similar to for, used to iterate over a range or collection based on a condition.

example:

```
while (count < 3)  
{  
    print("Count: $count");  
    count++;  
}
```