

Day -3(Logic Building)

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module

logic building:

daily work

assignments

short notes

Notes:

SWITCH CASE:

if you do public class Main {} than it will gives error that file name should be same as public class like Main.java

- in switch no duplicate cases allowed
- double, float, long does not allowed in switch
- byte, short, int, char, string, boolean is allowed
- in the case variables are not allowed like case day: error error constant expression required
- case 2+3: correct
- default case be placed anywhere in starting ,ending, middle
- default case is optional
- no case is there only default present than it will work print default msg

- if in switch case no default case and no cases than it will run without anything print no error
 - in switch no default and cases but one statement is be return, so it gives error
 - float and double have infinite range or cases
-

Loops:

FOR LOOP: finite loop or finite repetition

ForDemo.java

ForDemo1.java

for loop is used when we know the number of iterations.

syntax:

```
for(initialization; condition; incre/decre){
```

```
}
```

```
int a =10;
```

```
a>11;
```

```
a= a+1;
```

Permutations and combination for for loop

while loop:

WhileDemo.java

no idea of loop repetition

while loop is used when we didn't know the number of iterations.

Operators:

- arithmetic + , - , * , % , /
- logical
- relational < , > , < = , > = , == , !=
- assignment = , += , -= , *= , /= , %= , /=
- bitwise & , | , ^ , << , >>

example: 5 & 5 → 101 & 101

- unary + , - , ++ , --
1. post increment/decrement
 2. pre increment/decrement
- ternary

do-while loop:

DoWhileDemo.java