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Semester:

7th

Subject:

Web design & framework

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Chapter # 5

Conditional expression:

A conditional statement as the name suggests itself, is used to handle conditions in your program.

❖ Some condition statements are given:

- i. If
- ii. If else
- iii. If else if

quiz of programs:

```
python > conditional statement.py > ...
1  # if condition
2  a = 22
3  if(a>9):
4      print("greater than")
5  # if else
6  """
7  #write a program to print "yes" when the age entered by the user is greater than or equal to 18
8  otherwise print "no"
9  """
10 age = int(input("enter a age"))
11 if(age >= 18):
12     print("yes")
13 else:
14     print("no")
15 # if else if
16 marks = int(input("enter a MARKS"))
17 if(marks >= 60):
18     print("your grade is A")
19 if(marks > 50):
20     print("your grade is B")
21 if(marks >= 33):
22     print("your grade is C")
23 else:
24     print(" CONGRAULATIO your FAIL")
25
```

output:

```
python > conditional statement.py > ...
```

```
1  # if condition
2  a = 22
3  if(a>9):
4      print("greater than")
5  # if else
6  """
7  #write a program to print "yes" when the age entered by the user is greater than or equal to 18
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10 age = int(input("enter a age"))
11 if(age >= 18):
12     print("yes")
13 else:
14     print("no")
15 # if else if
16 marks = int(input("enter a MARKS"))
17 if(marks >= 60):
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\software h> python -u "d:\software h\python\conditional statement.py"
greater than
enter a age18
yes
enter a MARKS50
your grade is C
PS D:\software h> |
```

➤ **Relational operator:**

RELATIONAL OPEARATOR ARE USED TO EVALUATE THE CONDITIONS.

🚦 **EXAMPLE:**

python > conditional statement.py > ...

```
25 # relational operator
26 # relational operator used evaluate condition
27 # >= , <=, ==
28 value = 25
29 # less than equal
30 print (value >=12)
31 # greater than equal to
32 print (value >=22)
33 # equal to
34 print (value == 26)
35 # logical operator
36 # loical opeatir opearte on condional statement
37 # and ,not ,or
38 age= 25
39 #and opear
40 if age >=28 and age <12:
41     print("you are eligible\n")
42 else:
43     print("you are not eligible\n")
44 #OR op
45 temp = 10
46 if temp <19 or temp >6:
47     print("temprature is good\n")
48 else:
49     print("temprature is not good\n")
50     # not op
51 cloud = False
52 if not cloud:
53     print("whether is cloudly\n")
54
```

Activate Windows
Go to Settings to activate Window

Output:

```
python > conditional statement.py > ...
25 # relational opeator
26 # relational opeator used evaluate condition
27 # >= , <=, ==
28 value = 25
29 # less than equal
30 print (value >=12)
31 # greater than equal to
32 print (value >=22)
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35 # logical operator
36 # loical opeatir opearte on condional statement
37 # and ,not ,or
38 age= 25
39 #and opear
40 if age >=28 and age <12:
41 | print("you are eligible\n")
42 else:
43 | print("you are not eligible\n")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
True
False
you are not eligible

temprature is good

whether is cloudy

PS D:\software h>
```

➤ **Logical operator:**

Logical operators operate on condition statements

