Conditional statements Practice Interview Questions

In [ ]:
```python
# WAP that checks if a number is -ve. If it is ;print "The number is negative,"
num = eval(input("Enter the number: "))
if num < 0:
  print("The number is negative.")
```

```
Enter the number: -89
The number is negative.
```

In [ ]:
```python
# number check
# Wap to check the number is zero . If the number is zero , print"Zero"
n = int(input("Enter the number:"))
if n == 0 :
  print("The number is zero")
```

```
Enter the number:0
The number is zero
```

In [ ]:
```python
# Eligeblity checker
#Wap that checks if th4e person is eligible to vote. The person is eligible if they ar
age = int(input("Enter a person's age: "))
if age >= 18 :
  print('Eligible to vote')
```

```
Enter a person's age: 45
Eligible to vote
```

In [ ]:
```python
# Vowel Checker
#Wap to check if chsracter is a vowel. print "Vowel" if it i.
char = input("Enter a character: ")
if char in "aeiouAEIOU":
  print("the given char is Vowel")
```

```
Enter a character: A
the given char is Vowel
```

In [ ]:
```python
# divisible calculator
# wap to check if a given number is divisible by 5. Print"Divisible by 5" if it is ; c
num = int(input("Enter the number:"))
if num % 5 == 0:
  print("Num is Divisible by 5")
else:
  print("Num is not Divisible by 5")
```

```
Enter the number:43
Num is not Divisible by 5
```

In [ ]:
```python
# Number nature checker
# Wap to check whether the number is positive or negative. If it is +ve ;print("Positi
num = int(input("Entr the number: "))
if num >=0:
  print("Positive")
else:
  print("Negative")
```

```
Entr the number: -87
Negative
```

In [ ]:
```python
# Eligiblity Calculator
#Wap to check if the person is eligible for snior citizen discount.
#The person i eligible if he/she is 60 or older then print"Eligible"; Otherwise print"
age = int(input("Enter age of person: "))
if age >= 60:
  print("Eligible for Senior Citizen Discount")
else:
  print("Not Eligible")
```

```
Enter age of person: 89
Eligible for Senior Citizen Discount
```

In [ ]:
```python
# Number checker
# Wap that checks if the number is positive or zero.
# Print "Positive" if it is , otherwie print"Zero"
num = int(input("Enter num :"))
if num > 0:
  print("Positive")
else:
  print("Zero")
```

```
Enter num :0
Zero
```

In [ ]:
```python
# Temperature Calculator
# Wap that checks the vaue of variable temperature and print"Hot" if it is ablove 30 ,
# "warm" if itbetween 20 and 30 , and "Cold" if it is below 20
temperature = int(input("Enter temp degree celcius: "))
if temperature > 30 :
  print ("Hot")
elif temperature >=20 and temperature <= 30 :
  print("Warm")
elif temperature < 20 :
  print("Cold")
```

```
Enter temp degree celcius: 12
Cold
```

In [ ]:
```python
# Grade Calculator
#wap that checks the grade of students based on their c=score.
# print"A" for 90 and above
# print"B" for 80 to 89
# print"C" for 70 to 79
# print"D" for 70 and below

score = int(input("Enter score:"))
if score >=90:
  print("A")
elif score >=80 and score <=89:
  print("B")
elif score >=70 and score <=79:
  print("C")
elif score <70:
  print("D")
```

```
Enter score:98
A
```

```python
# Calender
# WAp that checks tha day of the week and prints "Weekend" if it is Saturday or sunday
# "Weekday" if it is Monday to Friday
Day = input("Enter day :")
if Day in ["Saturday", "Sunday"]:
  print("Hurray! its Weekend")
elif Day in ["Monday","Tuesday","Wednesday","Thursday","Friday"]:
  print("Its Weekday")
```

```
Enter day :Sunday
Hurray! its Weekend
```

```python
# Age Calculator
# Wap that checks person's age and print"Child" if he/she is under 12,
#"Teenager" if he /she is 12 to 18 "Adult" if they are above 18

Age = int(input('Enter age:'))
if Age < 12:
  print("Child")
elif Age >=12 and Age <=18:
  print("Teenager")
elif Age >18:
  print("Adult")
```

```
Enter age:14
Teenager
```

Practice codes

```python
# Discount Calculator
# WAp to calculate discount based on total purchase amount
Amount = int(input("Enter Total Amount:"))
if Amount < 50 :
  print("No Discount")
elif Amount >=50 and Amount <= 100 :
  print("Congratulation! 10 % Discount")
elif Amount > 100  and Amount <= 200:
  print("Congratulations! 20 % Discount")
elif Amount > 200:
  print ("Congratulation! 30 % Discount")
```

```
Enter Total Amount:100
Congratulation! 10 % Discount
```

```python
# Odd or Even
# WAP that take num as input and determine whether it is even or odd

num = int(input("Enter number:"))
if num % 2 == 0:
  print("Even Number")
elif num % 3 == 0:
  print("Odd Number")
```

```
Enter number:40
Even Number
```

```python
# Triangle Type
# WAP that takes 3 angles of traingle and determine whether it is right angle triangle
```

```python
A1 = int(input("Enter Angle1:"))
A2 = int(input("Enter Angle2:"))
A3 = int(input("Enter Angle3:"))
if (A1 + A2 + A3) == 180:
  print("Valid Triangle")
else:
  print("Invalid Tringle")
```

```
Enter Angle1:45
Enter Angle2:45
Enter Angle3:90
Valid Triangle
```

In [ ]:
```python
#BMI Calculator
#Wap that calculates BMI (Bosy mass index) from weight (kg) and height
wt = eval(input("Enter your weight(in kgs)"))
height = input("What is yoiur prefered unit of height (F/M)")
if height == "F":
                print("You will enter your height given as feet and inches. First enter
                feet = eval(input("Enter height in feet:"))
                inch = eval(input("Enter height in inch:"))
                con = (feet * 0.3048 + inch * 0.0254)
                BMI1 = wt / con**2
                print(f"Your BMI is {BMI1:.2f}")
elif height == "M":
                meter = eval(input("Enter height in meter"))
                BMI2 = wt / con**2
                print(f"Your BMI is {BMI2:.2f}")


if (BMI1 or BMI2) < 18.5:
  print("UNDERWEIGHT")
elif (BMI1 or BMI2 > 18.5) and (BMI1 or BMI2 < 25):
  print("NORMAL")
elif (BMI or BMI2 >= 25) and (BMI or BMI2 < 30):
  print("OVERWEIGHT")
elif (BMI1 or BMI2 > 30) :
  print("VERY-OVERWEIGHT")
else:
  print("Check the BMI properly!")
```

```
Enter your weight(in kgs)53
What is yoiur prefered unit of height (F/M)F
You will enter your height given as feet and inches. First enter feet
Enter height in feet:5
Enter height in inch:5
Your BMI is 19.44
NORMAL
```

In [4]:
```python
#BMI Calculator
#Wap that calculates BMI (Bosy mass index) from weight (kg) and height
wt = eval(input("Enter your weight(in kgs)"))
height = input("What is yoiur prefered unit of height (F/M)")
if height == "F":
                print("You will enter your height given as feet and inches. First enter
                feet = eval(input("Enter height in feet:"))
                inch = eval(input("Enter height in inch:"))
                height_in_meters = (feet * 0.3048 + inch * 0.0254)
elif height == "M":
                height_in_meters = eval(input("Enter height in meter"))
```

```python
# Calculate BMI
BMI = wt / height_in_meters**2
print(f"Your BMI is {BMI:.2f}")


# BMI Category
if BMI < 18.5:
    print("UNDERWEIGHT")
elif 18.5<= BMI <25:
    print("NORMAL")
elif 25<= BMI < 25:
    print("OVERWEIGHT")
elif BMI > 30 :
    print("VERY-OVERWEIGHT")
else:
    print("Check the BMI properly!")
```

```
Enter your weight(in kgs)53
What is yoiur prefered unit of height (F/M)M
Enter height in meter1.65
Your BMI is 19.47
NORMAL
```

In [ ]: