**PROGRAM USING DECISION MAKING STATEMENTS**

**DATE: 30/12/22**

**EX:3a**

**Checking if the given number is odd or even**

**AIM:** To check if the given number is odd or even.

**CODE:**

n=int(input("Enter any number to be checked: "))

if(n%2==0):

print("Even number")

else:

print("Odd number")

**OUTPUT:**

Enter any number to be checked: 7

Odd number

**STUDENT GRADE ANALYSIS**

**DATE: 30/12/22**

**EX:3b**

**AIM:** To analyse the grade of students

**CODE:**

m1=int(input("Enter mark 1: "))

m2=int(input("Enter mark 2: "))

m3=int(input("Enter mark 3: "))

total=m1+m2+m3

avg=total/3

elif(avg>90):

print("Grade O")

elif(90>avg>=80):

print("Grade A+")

elif(80>avg>=70):

print("Grade A")

elif(70>avg>=60):

print("Grade B+")

elif(60>avg>=50):

print("Grade B")

elif(avg<50):

print("Grade U")

**OUTPUT:**

Enter mark 1: 78

Enter mark 2: 66

Enter mark 3: 90

Grade A

**Checking if a character is an alphabet, digit or a space**

**DATE:30/12/22**

**EX:3c**

**AIM**

To check if the entered character is an alphabet, digit or a space.

**CODE**

ch=input("Enter any character: ")

if((ch>='a' and ch<='z')or(ch>='A' and ch<='Z')):

print("Alphabet")

elif(ch>='0' and ch<='9'):

print("Digit")

else:

print("Special character")

**OUTPUT**

Enter any character: 6

Digit

**Checking if the given number is positive/negative**

**Ex: 3d**

**Date: 30/12/22**

**Aim**

To check if the given number is positive, negative or zero.

**Code**

n=int(input("Enter any number to be checked: "))

if(n>0):

print("Positive number")

elif(n<0):

print("Negative number")

else:

print("Zero")

**Output**

Enter any number to be checked: -67

Negative number

**Converting lowercase to uppercase and vice-versa**

**Ex: 3e**

**Date: 30/12/22**

**Aim**

To convert lowercase into uppercase and uppercase into lowercase.

**Code**

ch=input("Enter anything: ")

if((ch>='A' and ch<='Z')):

ch=ch.lower()

print("Lower case ",ch)

elif((ch>='a' and ch<='z')):

ch=ch.upper()

print("Upper case: ",ch)

else:

print("Please type either in lower case or in upper case!")

**Output**

Enter anything : hello its a beautiful day

Upper case: HELLO ITS A BEAUTIFUL DAY

**Calculating bonus**

**Ex: 3d**

**Date: 30/12/22**

**AIM**

To calculate bonus for salary received.

**Code**

salary=int(input("Enter the salary "))

if(salary>10000):

bonus=(0.1)

bonus\_amt=(bonus\*salary)

total\_amt=(bonus\_amt+salary)

print("Bonus is: ",bonus\_amt)

print("Total salary: ",total\_amt)

elif(salary<10000):

bonus=(0.12)

bonus\_amt=(bonus\*salary)

total\_amt=(bonus\_amt+salary)

print("Bonus is: ",bonus\_amt)

print("Total salary: ",total\_amt)

**Output**

Enter the salary 15000

Bonus is: 1500.0

Total salary: 16500.0