PYTHON PROGRAMS USING DECISION MAKING STATEMENTS

1. ODD / EVEN PROGRAM:

CODE:

num=int(input("Enter the number:"))

if(num%2==0):

print("The given number is EVEN")

else:

print("The given number is ODD")





OUTPUT:

Enter the number:51790

The given number is EVEN

1. STUDENT GRADE ANALYSIS:

CODE:

sub1=int(input("Enter marks of the first subject: "))

sub2=int(input("Enter marks of the second subject: "))

sub3=int(input("Enter marks of the third subject: "))

sub4=int(input("Enter marks of the fourth subject: "))

sub5=int(input("Enter marks of the fifth subject: "))

avg=(sub1+sub2+sub3+sub4+sub4)/5

if(avg>90):

print("Grade: O")

elif(80<avg<=90):

print("Grade: A+")

elif(70<avg<=80):

print("Grade: A")

elif(60<avg<=70):

print("Grade: B+")

elif(50<avg<=60):

print("Grade: B")

elif(avg<50):

print("Grade: U")

OUTPUT:

Enter marks of the first subject: 95

Enter marks of the second subject: 86

Enter marks of the third subject: 72

Enter marks of the fourth subject: 65

Enter marks of the fifth subject: 86

Grade: A

1. READ A CHARACTER AND CHECK GIVEN CHARACTER IS ALPHABET, NUMBER, SPACE

CODE:

x=input("Enter the character")

if(x.isalpha()):

print("The given character is Alphabet")

elif(x.isnumeric()):

print("The given character is Number")

else:

print("The given character is Space")

OUTPUT:

Enter the character:4

The given character is Number

Enter the character:Z

The given character is Alphabet

Enter the character:

The given character is Space

1. CHECKING A NUMBER WHETHER IT IS POSITIVE / NEGATIVE OR ZERO

CODE:

n=int(input("Enter number: "))

if(n>0):

print("Number is positive")

elif(n<0):

print("Number is negative")

else:

print("Number is zero")

OUTPUT:

Enter number: 10

Number is positive

Enter number: -222

Number is negative

Enter number: 0000

Number is zero

5, READ A CHARACTER FROM USER AND CHANGE IT INTO UPPERCASE OR LOWERCASE

CODE:

ch=input("Enter the character:")

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

print("The character is converted into:",ch.lower())

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

print("The character is converted into:",ch.upper())

OUTPUT:

Enter the character:t

The character is converted into: T

Enter the character:R

The character is converted into: r

6.TOTAL SALARY WITH BONUS COLLECTION

CODE:

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

print("salary:",salary)

if(salary>10000):

bonus=0.1\*salary

print("bonus",bonus)

elif(salary<10000):

bonus=1.2\*salary

print("bonus",bonus)

Totalamount=salary+bonus

print("Totalamount is:", Totalamount)

OUTPUT:

Enter the salary:14000

salary: 14000

bonus 1400.0

Totalamount is: 15400.0