1. **ODD OR EVEN**

**Program:**

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

if(n%2==0):

print(n,"is an even number")

else:

print(n,"is a odd number")

**Output:**

Enter a number:537

537 is a odd number

1. **STUDENT GRADE ANALYSIS**

**Program:**

m1=int(input("Enter mark in PSPP:"))

m2=int(input("Enter mark in Maths:"))

m3=int(input("Enter mark in Physics:"))

m4=int(input("Enter mark in Chemistry:"))

m5=int(input("Enter mark in English:"))

avg=(m1+m2+m3+m4+m5)/5

if(avg>=90):

print("Grade:O")

elif(avg<90 & avg>=80):

print("Grade:A+")

elif(avg<80 & avg>=70):

print("Grade:A")

elif(avg<70 & avg>=60):

print("Grade:B+")

elif(avg<60 & avg>=50):

print("Grade:B")

else:

print("Grade:U")

**Output:**

Enter mark in PSPP:94

Enter mark in Maths:100

Enter mark in Physics:96

Enter mark in Chemistry:92

Enter mark in English:75

Grade:O

1. **ALPHABET OR NUMBER OR SPACE**

**Program:**

ch=input("Enter a character:")

if(ch.isalpha()):

print(ch,"is an alphabet")

elif(ch.isdigit()):

print(ch,"is a number")

elif(ch.isspace()):

print(ch,"is a space")

else:

print("The input",ch,"is invalid")

**Output:**

Enter a character:10

10 is a number

1. **POSITIVE OR NEGATIVE OR ZERO**

**Program:**

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

if(n>0):

print(n,"is positive")

elif(n<0):

print(n,"is negative")

else:

print(n,"is zero")

**Output:**

Enter a number:-10

-10 is negative

1. **UPPER OR LOWER CASE LETTER**

**Program:**

ch=input("Enter a character:")

if(ch.isupper()):

print(ch,"is an uppercase letter")

elif(ch.islower()):

print(ch,"is a lowercase letter")

else:

print("Invalid input")

**Output:**

Enter a character:D

D is an uppercase letter

1. **SALARY, BONUS AND TOTAL AMOUNT**

**Program:**

s=int(input("Enter your salary:"))

if(s<=10000):

b=s\*0.1

else:

b=s\*0.12

t=s+b

print("Your salary:",s)

print("Your bonus amount:",b)

print("Your total amount:",t)

**Output:**

Enter your salary:100000

Your salary: 100000

Your bonus amount: 12000.0

Your total amount: 112000.0