1) Write a program to check if a number is positive, negative or zero

PROGRAM

```
numcheck.py > ...
    num=int(input("enter number:"))
    v if num>0:
        print("number is +ve")
    4         elif num<0:
        print("number is -ve")
    6         else:
        print("number is zero")</pre>
```

OUTPUT

```
PROBLEMS
                               TERMINAL
                                                                                  PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/numcheck.py
enter number:8
number is +ve
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/numcheck.py
enter number:-8
number is -ve
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/numcheck.py
enter number:0
number is zero
PS C:\Users\Admin\Desktop\task>
```

2) Write a program to check if a person is eligible for voting or not. conditions – age greater than or equal to 18 the person is eligible.

age less than 18 not eligible for voting

PROGRAM

OUTPUT

```
PS C:\Users\Admin\Desktop\task> & C:\Users\Admin\AppData\Local\Programs\Python\Python311\python.exe c:\Users\Admin\Desktop\task> & C:\Users\Admin\AppData\Local\Programs\Python\Python311\python.exe c:\Users\Admin\Desktop\task> & C:\Users\Admin\AppData\Local\Programs\Python\Python311\python.exe c:\Users\Admin\Desktop\task\PS C:\Users\Admin\Desktop\task\Poting.py enter your age:15
You are not eligible voting
PS C:\Users\Admin\Desktop\task> & C:\Users\Admin\Desktop\task\Poting.py enter your age:15
You are not eligible voting
PS C:\Users\Admin\Desktop\task>
```

3) Write a program to check the given number is odd or even

PROGRAM

```
oddeven.py > ...
    num=int(input("enter number:"))
    if num%2==0:
        print(f"{num} is even number")
4     else:
        print(f"{num} is odd number")
```

OUTPUT

```
PS C:\Users\Admin\Desktop\task> & C:\Users\Admin\AppData\Local\Programs\Python\Python311\python.exe c:\Users\Admin\Desktop\task> & C:\Users\Admin\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Des
```

4) Write a program for grade classification based on percentage conditions

```
percentage = 90
grade A
percentage in between 80-90
grade B
percentage in between 70-80
grade C
percentage less than 70
fail
```

PROGRAM

```
grade.py > ...

percentage=int(input("enter your percentage:"))

if percentage>=90:
    print("Grade A")

elif percentage>=80 and percentage<=90:
    print("Grade B")

elif percentage>=70 and percentage<=80:
    print("Grade C")

elif percentage<70:
    print("Fail")</pre>
```

OUTPUT

```
PROBLEMS
                            TERMINAL

∑ Python + ∨ □ 

□ ··· · · ×

PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/grade.py
enter your percentage:90
Grade A
Desktop/task/grade.py
enter your percentage:85
Grade B
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/grade.py
enter your percentage:78
Grade C
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/grade.py
enter your percentage:45
PS C:\Users\Admin\Desktop\task>
```

5) Write a program to check the given year is a leap year or not

PROGRAM

```
leapyear.py > ...
    year=int(input("enter year:"))
    if(year%100==0 and year%400==0) or (year%100!=0 and year%4==0):
        print(f"{year} is a leap year")
    else:
        print(f"{year} is not a leap year")
```

OUTPUT

```
PS C:\Users\Admin\Desktop\task> & C:\Users\Admin\AppData\Local\Programs\Python\Python311\python.exe c:\Users\Admin\Desktop\task> & C:\Users\Admin\AppData\Local\Programs\Python\Python311\python.exe c:\Users\Admin\Desktop\task> & C:\Users\Admin\AppData\Local\Programs\Python\Python311\python.exe c:\Users\Admin\Desktop\task> & C:\Users\Admin\AppData\Local\Programs\Python\Python311\python.exe c:\Users\Admin\Desktop\task> & C:\Users\Admin\Desktop\task> & C:\Users\Admin\Desktop\task\Python\Python311\python.exe c:\Users\Admin\Desktop\task> & C:\Users\Desktop\task> & C:\Users\Admin\Desktop\task> & C:\Users\Desktop\task> & C:\Users\Deskt
```

6) Write a program to determine largest of three numbers.

PROGRAM

```
largestnum.py > ...

num1=int(input("enter number1:"))

num2=int(input("enter number2:"))

num3=int(input("enter number3:"))

if num1>num2 and num1>num3:

print(f"{num1} is largest number")

elif num2>num1 and num2>num3:

print(f"{num2} is largest number")

else:

print(f"{num3} is largest number")
```

OUTPUT

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/largestnum.py
enter number1:10
enter number2:20
enter number3:30
30 is largest number
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/largestnum.py
enter number1:30
enter number2:20
enter number3:10
30 is largest number
PS C:\Users\Admin\Desktop\task> & C:\Users\Admin\AppData\Local\Programs\Python\Python\311\python.exe c:\Users\Admin\
Desktop/task/largestnum.py
enter number1:20
enter number2:30
enter number3:10
30 is largest number
PS C:\Users\Admin\Desktop\task>
                                                                                  Activate Windows
```

7) Write program for a simple calculator.

PROGRAM

```
simpleCalculator.py > .
     num1=int(input("enter number1:"))
     num2=int(input("enter number2:"))
     op=input("enter operator:")
     if op=="+":
         sum=num1+num2
         print(sum)
     elif op=="-":
         sub=num1-num2
         print(sub)
     elif op=="*"
         mul=num1*num2
         print(mul)
     elif op=="/":
         div=num1/num2
         print(div)
         print("please enter valid operator")
```

OUTPUT

```
PROBLEMS
                                 TERMINAL
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/simpleCalculator.py
enter number1:20
enter number2:10
enter operator:+
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/simpleCalculator.py
enter number1:20
enter number2:10
PS C:\Users\Admin\Desktop\task> & C:\Users\Admin\AppData/Local/Programs/Python/Python311/python.exe c:\Users\Admin\AppData
Desktop/task/simpleCalculator.py
enter number1:20
enter number2:10
enter operator:*
200
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/simpleCalculator.py
enter number1:20
enter number2:10
enter operator:/
                                                                                      Activate Windows
2.0
```