

TASK 1

Q1: Write a program to check if a number is positive, negative or zero

PROGRAM

```
1 # 1) Write a program to check if a number is positive, negative or zero
2 num=int(input("enter the number = "))
3 if num>0:
4     print("The Number is Positive")
5 elif num<0:
6     print("The Number is Negative")
7 elif num==0:
8     print("The Number is Zero")
```

OUTPUT

```
TACK/PYTHON CORE & ADVANCED/TASK 1/q1.py"
enter the number = -3
The Number is Negative
PS C:\Users\HP\Desktop\PYTHON FULLSTACK> & C:/Users/HP/Desktop/PYTHON FULLSTACK/TACK/PYTHON CORE & ADVANCED/TASK 1/q1.py"
enter the number = 0
The Number is Zero
PS C:\Users\HP\Desktop\PYTHON FULLSTACK> & C:/Users/HP/Desktop/PYTHON FULLSTACK/TACK/PYTHON CORE & ADVANCED/TASK 1/q1.py"
enter the number = 5
The Number is Positive
PS C:\Users\HP\Desktop\PYTHON FULLSTACK> █
```

Q2: 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

```
1 # 2) Write a program to check if a person is eligible for voting or not
2 # conditions - age greater than or equal to 18 the person is eligible age less than 18 not eligible for voting
3 age=int(input("Enter Age :"))
4 if age>18:
5     print("Eligible for voting")
6 else:
7     print("Not Eligible for Voting")
```

OUTPUT

```
TACK/PYTHON CORE & ADVANCED/TASK 1/q2.py"
Enter Age :19
Eligible for voting
PS C:\Users\HP\Desktop\PYTHON FULLSTACK> & C:/Users/HP/AppData/Local/Programs/Python/Python39-64/TACK/PYTHON CORE & ADVANCED/TASK 1/q2.py"
Enter Age :11
Not Eligible for Voting
PS C:\Users\HP\Desktop\PYTHON FULLSTACK> █
```


OUTPUT

```
TACK/PYTHON CORE & ADVANCED/TASK 1/q4.py"
Enter the Mark = 67
Enter Total = 90
Grade C
```

Q5: Write a program to check the given year is a leap year or not

PROGRAM

```
1 # 5) Write a program to check the given year is a leap year or not
2 year=int(input("Enter the Year = "))
3 if(year%100==0 and year%400==0)or(year%100!=0 and year%4==0):
4     print("Year is Leapyear")
5 else:
6     print("Year is Not Leapyear")
7
```

OUTPUT

```
Enter the Year = 2024
Year is Leapyear
PS C:\Users\HP\Desktop\PYTHON FULLSTACK> & C:/Users/HP/Desktop/PYTHON FULLSTACK/TACK/PYTHON CORE & ADVANCED/TASK 1/q5.py"
Enter the Year = 2023
Year is Not Leapyear
PS C:\Users\HP\Desktop\PYTHON FULLSTACK>
```

Q6: Write a program to determine largest of three numbers

PROGRAM

```
1 # 6) Write a program to determine largest of three numbers
2 num1=int(input("enter the first number ="))
3 num2=int(input("enter the second number ="))
4 num3=int(input("enter the third number ="))
5 if(num1>num2 and num1>num3):
6     print("num 1 is the largest number")
7 if(num2>num1 and num2>num3):
8     print("num2 is the largest number")
9 if(num3>num1 and num3>num2):
10    print("num3 is the largest number")
```

OUTPUT

```
TACK/PYTHON CORE & ADVANCED/TASK 1/q6.py"
enter the first number =45
enter the second number =67
enter the third number =90
num3 is the largest number
PS C:\Users\HP\Desktop\PYTHON FULLSTACK>
```

Q7: Write program for a simple calculator

PROGRAM

```
1  # 7)   Write program for a simple calculator
2
3  num1=int(input("enter num1="))
4  num2=int(input("enter num2="))
5  op=input("operator")
6  if op=="+":
7      result=num1+num2
8      print(f"result {num1} + {num2} = {result} ")
9  elif op=="-":
10     result=num1-num2
11     print(f"result{num1}-{num2}={result}")
12 elif op=="*":
13     result=num1*num2
14     print(f"result{num1}*{num2}={result}")
15 elif op=="/":
16     result=num1/num2
17     print(f"result{num1}/{num2}={result}")
18 else:
19     print("enter valid operator")
```

OUTPUT

```
enter num1=5
enter num2=5
operator+
result 5 + 5 = 10
PS C:\Users\HP\Desktop\PYTHON FULLSTACK> & C:/Users/HP/Desktop/PYTHON CORE & ADVANCED/TASK 1/q7.py"
enter num1=4
enter num2=7
operator*
result4*7=28
PS C:\Users\HP\Desktop\PYTHON FULLSTACK>
```