TASK 2

DHARMA DEVI K
ARULMIGU MEENAKSHI AMMAN COLLEGE OF ENGINEERING
B. TECH (INFORMATION TECHNOLOGY) – FINAL YEAR

IF ELSE

1. **Divsible by 5 or not.**

PROGRAM:

```
n = int(input("Enter n "))
if n % 5 == 0:
    print("n is divisible by 5.")
else:
    print("n is not divisible by 5.")
```

OUTPUT 1:

Enter n 10

n is divisible by 5.

OUTPUT 2:

Enter n 4

n is not divisible by 5.

2. **Eligible for vote.**

PROGRAM:

```
age = int(input("Enter your age: "))
if age >= 18:
    print("You are eligible to vote.")
else:
    print("You are not eligible to vote.")
```

OUTPUT 1:

Enter your age: 33

You are eligible to vote.

OUTPUT 2:

Enter your age: 16

You are not eligible to vote.

3. Number equal or not.

PROGRAM:

```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
if num1 == num2:
    print("The numbers are equal.")
else:
    print("The numbers are not equal.")
```

OUTPUT 1:

Enter the first number: 22

Enter the second number: 22

The numbers are equal.

OUTPUT 2:

Enter the first number: 23

Enter the second number: 22

The numbers are not equal.

4. Largest two number using if else.

PROGRAM:

```
a = int(input("Enter a value "))
b = int(input("Enter b value "))
if (a>b):
    print("a is greater")
else:
    print("b is greater")
```

OUTPUT 1:

Enter a value 33

Enter b value 44

b is greater

OUTPUT 2:

Enter a value 55

Enter b value 44

a is greater

5. Leap year or not.

PROGRAM:

```
year = int(input("Enter a year: "))
if (year % 4 == 0):
    print(year," is a leap year.")
else:
    print(year ,"is not a leap year.")
```

OUTPUT 1:

Enter a year: 2024

2024 is a leap year.

OUTPUT 1:

Enter a year: 2023

2023 is a not leap year.

IF ELIF ELSE

6. Smallest three number.

PROGRAM:

```
a = int(input("Enter a value "))
b = int(input("Enter b value "))
c = int(input("Enter c value "))
```

```
if (a<b and a<c):

    print("a is smaller")

elif (b<a and b<c):

    print("b is smaller")

elif (c<a and c<b):

    print("c is smaller")

else:

    print("All number are equal")
```

OUTPUT:

Enter a value 22

Enter b value 33

Enter c value 44

a is smaller

7. Greatest two number using if elif else.

PROGRAM:
```
a = int(input("Enter a value "))

b = int(input("Enter b value "))

if (a>b):

    print("a is greater")

elif (b>a):

    print("b is greater")

else:

    print("All are equal")
```

OUTPUT:

Enter a value 33

Enter b value 33

All are equal

8. Check Character or not.

PROGRAM:

char = input("Enter a character: ")

if ('A' <= char <= 'Z') or ('a' <= char <= 'z'):

   print(char," is an Alphabet.")

elif '0' <= char <= '9':

   print(char," is a Digit.")

else:

   print(char ," is a Special Character.")

OUTPUT 1:

Enter a character: 22

22 is a Digit.

OUTPUT 2:

Enter a character: D

D is an Alphabetic.

OUTPUT 3:

Enter a character: d

d is an Alphabetic.

OUTPUT 4:

Enter a character: *

* is a Special Character.

9. Positive, Negative or not.

PROGRAM:

number = float(input("Enter a number: "))

if number > 0:

   print("The number is positive.")

elif number < 0:

   print("The number is negative.")

else:

```
    print("The number is zero.")
```

OUTPUT 1:

Enter a number: 44

The number is positive.

OUTPUT 2:

Enter a number: -1

The number is negative.

OUTPUT 3:

Enter a number: 0

The number is zero.

OUTPUT 4:

Enter a number: 4.5

The number is positive.

10. Find the grade difference between students.

PROGRAM:

```
name = input("Enter the name of the student: ")
grade = input("Enter the grade (A, E, F, G, V): ")
if grade == "E":
    print(name,", the grade is Excellent.")
elif grade == "V":
    print(name,", the grade is Very Good.")
elif grade == "G":
    print(name,", the grade is Good.")
elif grade == "A":
    print(name,", the grade is Average.")
elif grade == "J":
    print(name,", the grade is Just Pass.")
elif grade == "F":
    print(name,", the grade is Fail.")
```

else:

   print("Invalid grade entered.")

OUTPUT:

Enter the name of the student: Dharma

Enter the grade (A, E, F, G, V): A

Dharma, the grade is Average.

11. Grade of marks.

PROGRAM:

```python
marks = int(input("Enter the marks: "))
if marks >= 95:
    print("Grade: A Excellent")
elif marks >= 85:
    print("Grade: B Very Good")
elif marks >= 65:
    print("Grade: C Good")
elif marks >= 50:
    print("Grade: D Average")
elif marks >= 35:
    print("Grade: E Just Pass")
else:
    print("Grade: F Fail")
```

OUTPUT:

Enter the marks: 79

Grade: C Good