**DAY4 2/9/25**

1/write a program in c language to print if roll 100 is present or not?

CODE:

#include <stdio.h>

int main()

{

int n, i, found = 0;

printf("Enter the number of roll numbers: ");

scanf("%d", &n);

int rolls[n];

printf("Enter the roll numbers:\n");

for (i = 0; i < n; i++)

{

scanf("%d", &rolls[i]);

}

for (i = 0; i < n; i++)

{

if (rolls[i] == 100)

{

found = 1;

break;

}

}

if (found)

{

printf("Roll number 100 is present.\n");

}

else

{

printf("Roll number 100 is NOT present.\n");

}

return 0;

}

OUTPUT:  
Enter the number of roll numbers: 5

Enter the roll numbers:

101

102

100

105

110

Roll number 100 is present.

Enter the number of roll numbers: 4

Enter the roll numbers:

10

20

30

40

Roll number 100 is NOT present.

2/write a program in c language to check if number is even or odd

CODE:

#include <stdio.h>

int main()

{

int num;

printf("Enter a number: ");

scanf("%d", &num);

printf("%d is %s.\n", num, (num % 2 == 0) ? "Even" : "Odd");

return 0;

}

OUTPUT:

Enter a number: 10

10 is Even.

Enter a number: 7

7 is Odd.

3/write a program in c language to check the greater among two numbers

CODE:

#include <stdio.h>

int main()

{

int num1, num2;

printf("Enter the first number: ");

scanf("%d", &num1);

printf("Enter the second number: ");

scanf("%d", &num2);

(num1 == num2) ? printf("Both numbers are equal.\n") : printf("%d is greater.\n", (num1 > num2) ? num1 : num2);

return 0;

}

OUTPUT:

Enter the first number: 12

Enter the second number: 8

12 is greater than 8

Enter the first number: 5

Enter the second number: 9

9 is greater than 5

Enter the first number: 7

Enter the second number: 7

Both numbers are equal.

4/a coin is tossed .write a program in c language to check if it is head or tail

CODE:

#include <stdio.h>

#include <stdlib.h>

#include <time.h>

int main()

{

int toss;

srand(time(0));

toss = rand() % 2;

if (toss == 0)

{

printf("It's HEAD!\n");

}

else

{

printf("It's TAIL!\n");

}

return 0;

}

OUTPUT:

It's HEAD!

It's TAIL!

5/write a program in c language to check if the number is whole number or not

CODE:

#include <stdio.h>

int main()

{

int num;

printf("Enter a number: ");

scanf("%d", &num);

if (num >= 0)

{

printf("%d is a whole number.\n", num);

}

else

{

printf("%d is NOT a whole number.\n", num);

}

return 0;

}

OUTPUT:

Enter a number: 5

5 is a whole number.

Enter a number: 0

0 is a whole number.

Enter a number: -3

-3 is NOT a whole number.

6/write a program in c language to check if it is leap year or not using ladder if else only

CODE:

#include <stdio.h>

int main()

{

int year;

printf("Enter a year: ");

scanf("%d", &year);

if (year % 400 == 0)

{

printf("%d is a leap year.\n", year);

}

else if (year % 100 == 0)

{

printf("%d is NOT a leap year.\n", year);

}

else if (year % 4 == 0)

{

printf("%d is a leap year.\n", year);

}

else

{

printf("%d is NOT a leap year.\n", year);

}

return 0;

}  
OUTPUT:

Enter a year: 2000

2000 is a leap year.

Enter a year: 1900

1900 is NOT a leap year.

7/write a program in c language to check greatest among three numbers using ladder if else only

CODE:

#include <stdio.h>

int main()

{

int num1, num2, num3;

printf("Enter three numbers: ");

scanf("%d %d %d", &num1, &num2, &num3);

if (num1 > num2 && num1 > num3)

{

printf("%d is the greatest number.\n", num1);

}

else if (num2 > num3)

{

printf("%d is the greatest number.\n", num2);

}

else

{

printf("%d is the greatest number.\n", num3);

}

return 0;

}

OUTPUT:

Enter three numbers: 12 7 25

25 is the greatest number.

8/write a program in c language to check if letter is a vowel or consonent using ladder if else only

CODE:

#include <stdio.h>

int main()

{

char ch;

printf("Enter an alphabet: ");

scanf("%c", &ch);

if (ch == 'A' || ch == 'a') {

printf("%c is a vowel.\n", ch);

}

else if (ch == 'E' || ch == 'e')

{

printf("%c is a vowel.\n", ch);

}

else if (ch == 'I' || ch == 'i')

{

printf("%c is a vowel.\n", ch);

}

else if (ch == 'O' || ch == 'o')

{

printf("%c is a vowel.\n", ch);

}

else if (ch == 'U' || ch == 'u')

{

printf("%c is a vowel.\n", ch);

}

else

{

printf("%c is a consonant.\n", ch);

}

return 0;

}

OUTPUT:

Enter an alphabet: A

A is a vowel.

Enter an alphabet: k

k is a consonant.

9/write a program in c language to print size of integer,float,double,char

CODE:

#include <stdio.h>

int main()

{

printf("Size of int: %zu bytes\n", sizeof(int));

printf("Size of float: %zu bytes\n", sizeof(float));

printf("Size of double: %zu bytes\n", sizeof(double));

printf("Size of char: %zu byte\n", sizeof(char));

return 0;

}

OUTPUT:

Size of int: 4 bytes

Size of float: 4 bytes

Size of double: 8 bytes

Size of char: 1 byte

10/write a program in c language to check greatest among three numbers using nested if else only

CODE:

#include <stdio.h>

int main()

{

int num1, num2, num3;

printf("Enter three numbers: ");

scanf("%d %d %d", &num1, &num2, &num3);

if (num1 > num2)

{

if (num1 > num3)

{

printf("%d is the greatest number.\n", num1);

}

else if (num3 > num1)

{

printf("%d is the greatest number.\n", num3);

}

else

{

printf("%d and %d are equal and greatest.\n", num1, num3);

}

}

else

{

if (num2 > num3)

{

printf("%d is the greatest number.\n", num2);

}

else if (num3 > num2)

{

printf("%d is the greatest number.\n", num3);

}

else

{

printf("%d and %d are equal and greatest.\n", num2, num3);

}

}

return 0;

}

OUTPUT:

Enter three numbers: 10 25 15

25 is the greatest number.