Practical -01

Aim : To study the use of different types of datatype.

source code

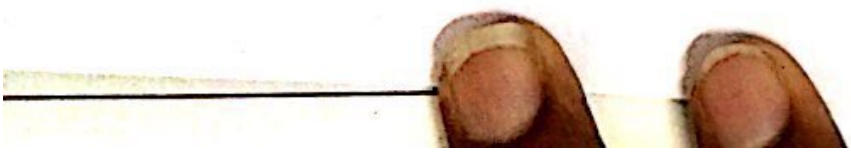
```
#include <stdio.h>
#include <conio.h>
void main ()
{
 char name[50];
 char add[50];
 int roll;
 float percent;
 char grade;
 long int mob;
 clrscr ();
 printf ("---- Demonstrate various
   datatypes ----\n");
 printf (" Address of the student\n");
 scanf ("%s", and add);
 Printf (" roll no of the student \n")
 Scanf (" %d", and roll no);
 Printf (" percentage of student\n");
 scanf (" % ", and percent);
```

Output :

- - - - Demonstrate various data types

Name of the student
Varun
Address of student
Las Vegas California
Percentage of student
75.04
Grade of student
B
Mobile no
1 2 3 4 5 6 7 8 9 0

Student name : varun
student address : Las Vegas California
Student roll no : 2
Student grade : B
student mobile no : 1234567890.



OUTPUT

Enter radius

4

Area of circle : 50.240002

```
printf (" grade of student \n");
scan f (" %. s" and grade);
Print f (" mobile no \n");
scan f (" %. ld" and no ob);
Print f (" \n student name : %s",
Print f (" \n student address %s",
Print f (" \n student percent . %d",
Print f (" \n student percent . %f",
Print f (" \n student grade : %c",
Print f (" \n student mobileno : %d",
getch( );
}
```

29/11/19

Program - 2
Area of circle

SOURCE CODE:

```
# include <studio.h>
# include < conio.h>
void main ( )
{
   float r;
```

Practical-2.

Aim. Write a C program which write show the use of various different types of operators.

Arithmetic operators.

SOURCE CODE:

```
# include <studio.h>
# include <conio.h>
void main ()
{
int num1, num2, add, sub, mul, div;
clrscr ();
Printf ("Enter 1st number: ");
Scanf ("%d", &num1);
Printf ("enter 2nd number: ");
Scanf ("%d", &num2);
Printf ("Addition of 2 numbers: %d
\n", add);
sub = num1 - num2;
Printf ("Subtraction of 2 numbers: %d
\n", mul);
div = num1 / num2;
Printf
Printf ("Subtraction of 2 numbers: %d
\n", sub);
mul = num1 * num2;
Printf ("multiplication of 2 numbers:
```

output :

Enter 1st number : 8

Enter 2nd number : 2

Addition of 2 number : 10

Subtraction of 2 number : 6

Multiplication of 2 number : 16

Division of 2 number : 4.

output:

Enter 1st number 9
Enter 2nd value : 8
Enter 3rd value : 2
value 1 is 0
value 2 is 1
value 3 is 1
value 4 is 0
value 5 is 1

12/01/2020

```
div = num1 / num2;
Printf ("Division of 2 numbers:
div);
getch();
}
```

Logical operators

```
# include <stdio.h>
# include <conio.h>
void main()
{
  int x, y, z, value1, value2, value3,
  value4, value5;
  clrscr();
Printf ("Enter 1st value:");
scanf ("%d", &x);
Printf ("Enter 2nd value:");
scanf ("%d", &z);
value1 = (x<y) && (z>y);
Printf ("value 1 is : %d\n", value
value2 = (x=y) && (z<y);
Printf ("value 2 is : %d \n", value
value3 = (x<y) || (z=y);
Printf ("value 3 is : %d \n", value
value 4 = ! (x==y);
Printf ("value 4 is: %d \n", value
value 5 = (x==y);
Printf ("value 5 is : %d \n", value
getch();
```

Practical - 03:

Aim: Programs on decision statements

WAP to find whether entered year is leap year or not

Algorithm

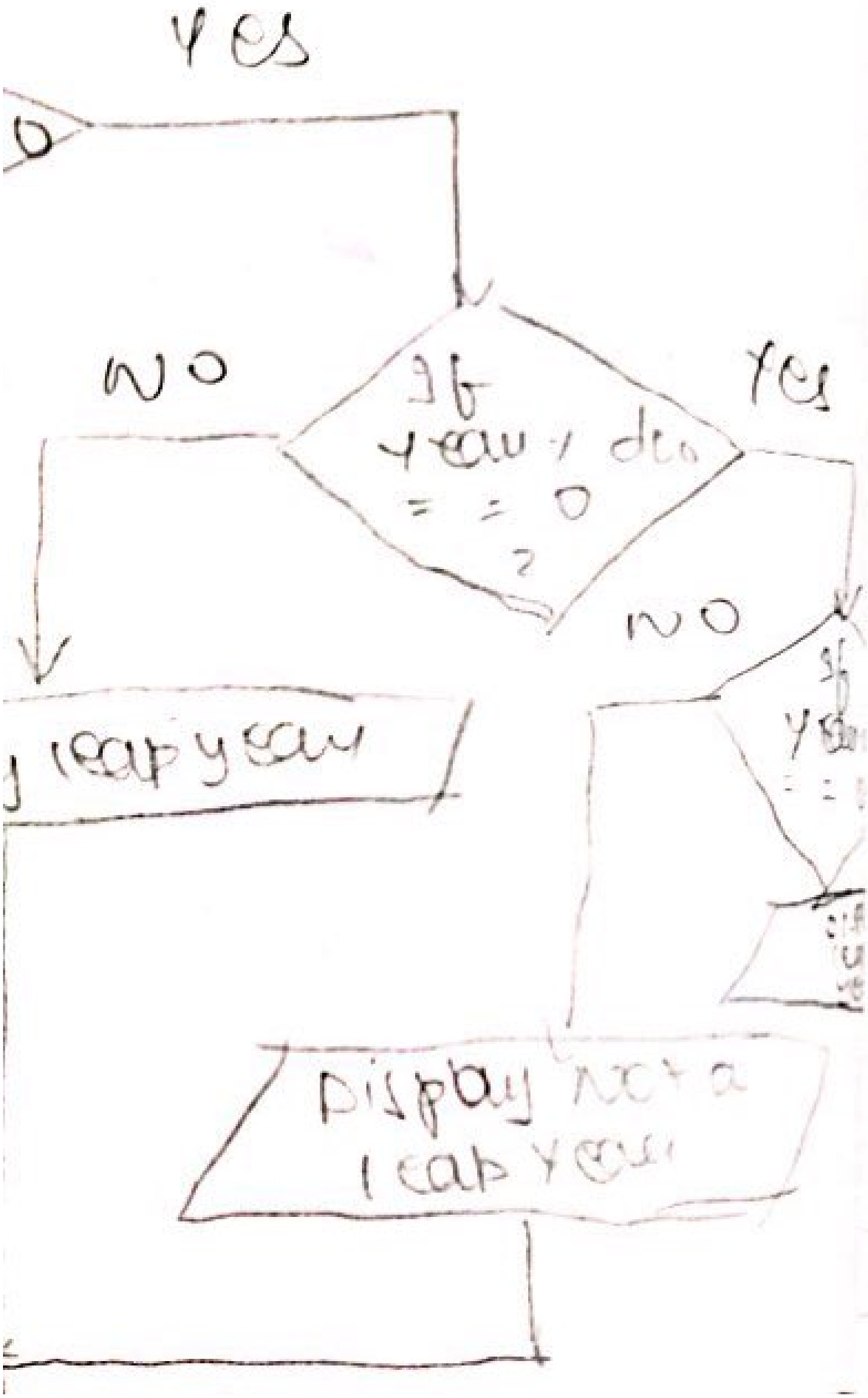
step 1: Take integer variable year

step 2: Using user input take the value

step 3: Using nested if else conditions, if the value is true, print it is a leap year or print it is not a leap year

Source code:

```
#include <stdio.h>
#include <conio.h>
void main ()
{
int year;
clrscr ();
printf ("enter year:");
scanf ("%d", &year);
```



WAP to find odd and even number,

algorithm

step 1: take integer variable number

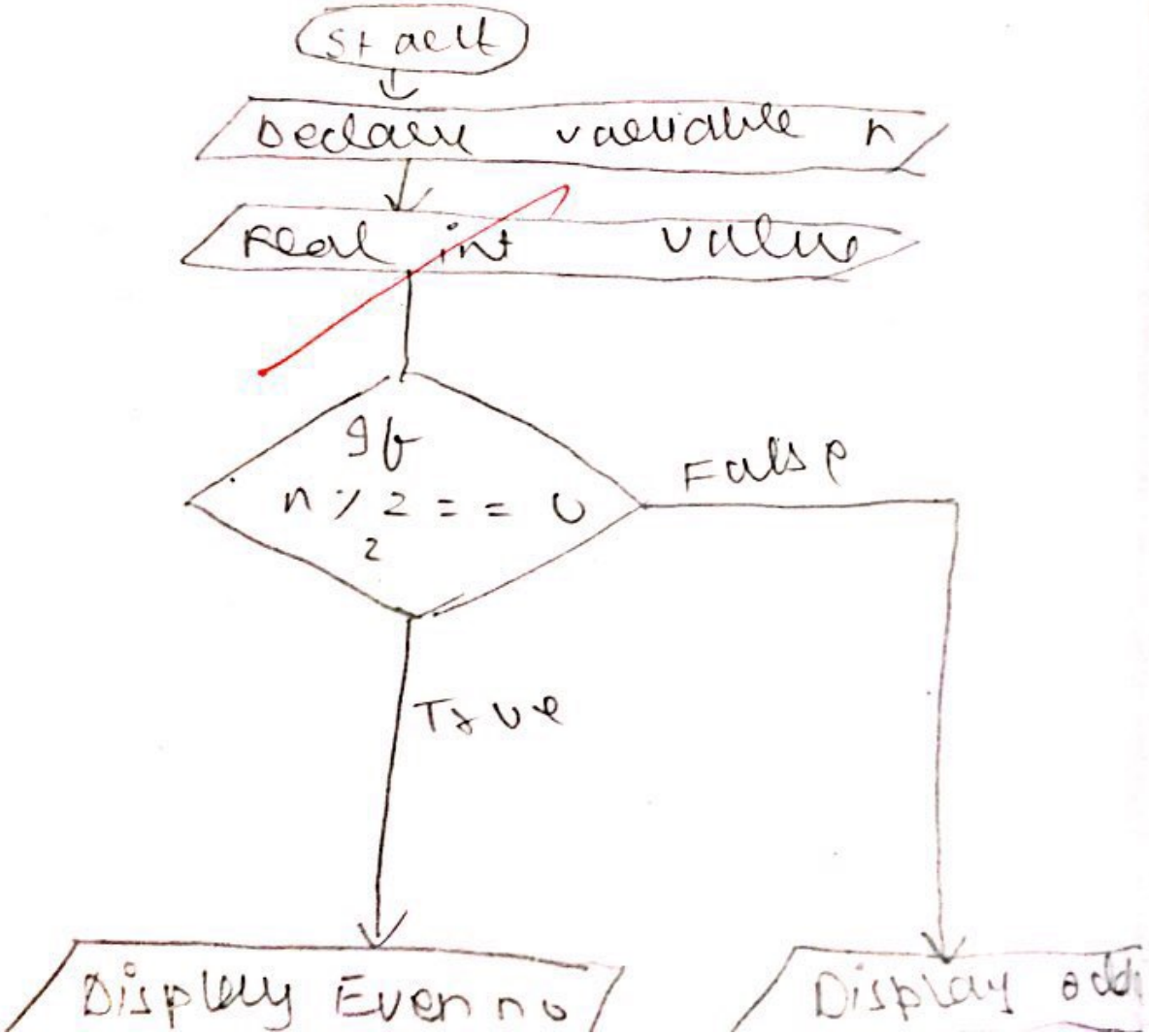
step 2: using user input, take the value

step 3: use conditional statement
if (num % 2 == 0) print even,
else print odd

step 4: print the result

output :
enter the number : 7
7 is an odd number
enter the number : 22
22 is an even even number.

Flowchart



WAP to find largest of three numbers using nested if ... else.

Algorithm:

step 1: Take the three variables A, B, C

step 2: using user input - take the value

step 3: using nested if else statement determine which number is greater.

step 4: Print the largest number

source code:-

```
# include <stdio.h>
# include <conio.h>
int main ()
{
 int A, B, C.
 printf ("enter three numbers")
 scanf ("%d %d %d", &A, &B, &C);
 if (A >= B)
    {
     if (A >= C)
     printf ("%d is the largest numb
 else
```

```
printf("%d is the largest number",c);
}
else
if (B >= C)
  else printf("%d is the largestnumber",b);
else
  printf("%d is the largest number",c);
}
return 0;
}
```

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Aim:

Write a program to find the largest among three numbers

Flowchart