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who has worked for the year 2019 - 20 in the Computer
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Teacher In-Charge

Head of Department

Date : _____

Examiner

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Output → Demonstration of Datatypes
 Enter your number:
 1810
 Enter your name:
 AYUSH
 Enter your percentage:
 75
 Enter your grade:
 A
 Enter your mobile number:
 1811789
 Your phone number is : 1810
 Your name is : AYUSH
 Your percentage is : 75
 Your Grade is : A
 Your mobile number is : 1811789

Practical no. 1

25

Aim: → write the program to understand the basic datatypes & I/O

Source Code: →

```

#include <stdio.h>
#include <conio.h>
void main()
{
  int roll;
  long int mob;
  char grade;
  float per;
  char name[50];
  clrscr();
  printf("***** Demonstration of Datatypes *****");
  printf("Enter roll your number :\n");
  scanf("%d", &roll);
  printf("Enter your name :\n");
  scanf("%s", name);
  printf("Enter your percentage :\n");
  scanf("%f", &per);
  printf("Enter your grade :\n");
  scanf("%c", &grade);
  printf("Enter your mobile number :\n");
  scanf("%ld", &mob);
  printf("Your roll number is : %d\n");
  printf("Your name is : %s\n", name);
  printf("Your percentage is : %f\n", per);
}
    
```

25
25
25

```
cout << "Your grade is : %c\n";
cout << "Your mobile number is : %ld\n";
getch();
```

Program 2
Area of circle
Source code ->
#include <iostream.h>
#include <conio.h>
void main()
{

```
float r;
float pi = 3.14;
float area;
clrscr();
cout << "Enter radius\n";
scanf ("%f", &r);
area = pi * r * r;
cout << "Area of circle : %f";
getch();
```

Output ->
Enter Radius
5
Area of circle: 78.500000

VN.
10/10/19

Practical no.2

29

Aim:- Write a Program in C on Operator & Expression.

Algorithm:-

a) write a Program to create a dynamic calculator

Step 1:- Declare a Variable name for first & second number as ~~integer~~

Step 2:- Now use scanf function to receive Input from user.

Step 3:- Use all the Input from user to Perform all Operations.

Step 4:- Display all the Output of the following Operations.

Program:-

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int a,b,add,sub,mul,div;
    clrscr();
    printf("Enter first no.: \n");
    scanf("%d", &a);
    printf("Enter second no.: \n");
    scanf("%d", &b);
    add = a+b;
    sub = a-b;
    mul = a*b;
    div = a/b;
    printf("Addition of two no. is: %d\n");
    printf("Subtraction of two no. is: %d\n");
    printf("Multiplication of two no. is: %d\n");
    printf("Division of two no. is: %d\n");
    getch();
}
```

Output:

Enter first number:

6

Enter Second number:

3

Addition of two numbers is : 9

Subtraction of two numbers is : 3

Multiplication of two numbers is : 18

Division of two numbers is : 2

~~Ques~~
#include <iostream>
#include <conio.h>
#include <math.h>
void main ()

```
{  
    int a,b,x;  
    clrscr();  
    a=5;  
    b=15;  
    x=(a>b)? a:b;  
    printf(" %d ",x);  
    getch();  
}
```

Output:

15

31
Write a Program in C to Explain Ternary Operator.

Algorithm:

- Step 1:- Declare the Variable a, b, x as integer
- Step 2:- Store the value of a as c and b as d
- Step 3:- Now Compare between who is greater use ternary operator to find
- Step 4:- Use printf function to display Output.

Jyoti
Jyoti/100

Practical No. 3

Aim :- Program for division Statement.

Code :-

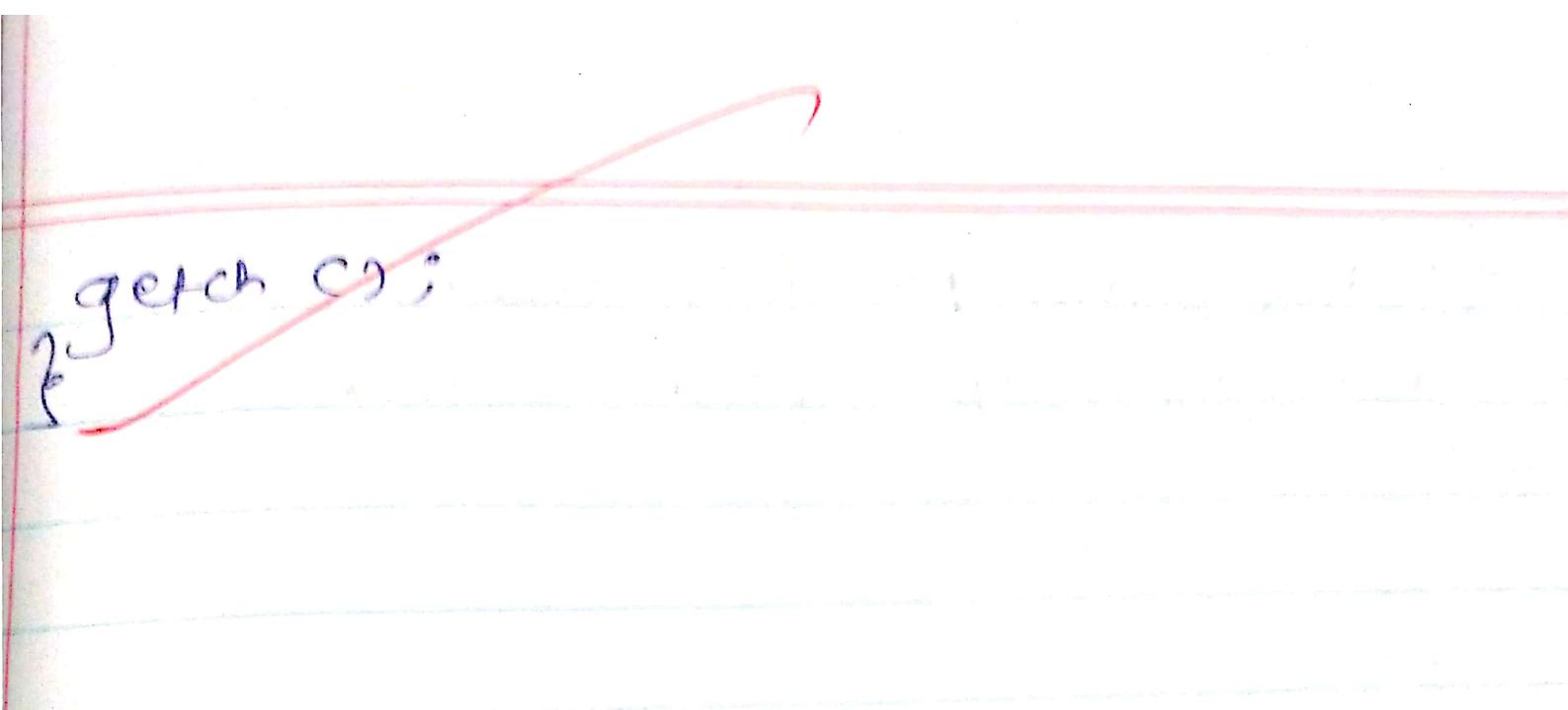
```
#include <stdio.h>
#include <conio.h>

void main()
{
    int a,b,c;
    clrscr();
    printf("Enter first number: %.1f",a);
    scanf("%d", &a);
    printf("Enter second number: %.1f",b);
    scanf("%d", &b);
    printf("Enter third number: %.1f",c);
    scanf("%d", &c);

    if (a>b)
    {
        if (a>c)
            printf("y.d is greater",a);
        else
            printf("y.d is greater",c);
    }
    else
        printf("y.d is greater",b);
}
```

Output :-

Enter first number: 7
Enter second number: 5
Enter third number: 2
7 is greater.



~~Ques.~~
Aim: → Write a Program to find whether
entered year is leap year or not

Output: →

Enter a year: 2020
It is a leap year

Sami

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int x;
    clrscr();
    printf("Enter a year:");
    scanf("%d", &x);
    if ((x % 4 == 0) && (x % 100 != 0)) {
        {
            printf("It's a leap year");
        }
    } else
        {
            printf("It's not a leap year");
        }
    getch();
}
```

~~Output → alphabet : - b~~
Enter a consonant

After → write a C program → find the entered character is vowel or consonant

#include <stdio.h>

#include <conio.h>

void main()

{

char g;

clrscr();

printf(" Enter a alphabet : ");

if (g == 'a' ||

g == 'e' || g == 'i' || g == 'o' ||

g == 'u')

{

printf ("Vowel");

}

else

{

printf ("consonant");

}

getch();

Jr. 1
2019/2020

26. 27

Practical No-4:

Q1) Program to print numbers up to 50 using for loop.

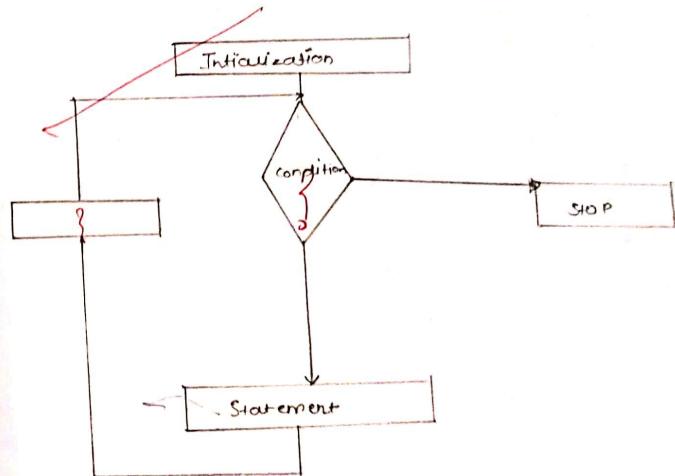
```
#include <stdio.h>
#include <conio.h>
void main()
{
    int i;
    clrscr();
    for (i=2; i<=50; i+=2)
    {
        printf("%d\n", i);
    }
    getch();
}
```

Algorithm →

- 1] Start
- 2] Include appropriate libraries
- 3] Use for conditional loop to iterate the variable till 50.
- 4] Increment the incrementing variable by 1.
- 5] Print the output.

Output →

2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	36
2,2																				
4,2	44	46	48	50																



Output →
Odd numbers from 1 to 50 are:

1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49

b.] Aim: Write a C program to print odd numbers between 1-50 using do while loop.

Source code →

```
#include <stdio.h>
#include <conio.h>
```

```
void main()
```

```
{
```

```
int i, n = 50;
```

```
clrscr();
```

```
printf("Odd numbers from 1 to 50 are:\n");
```

```
i = 1;
```

```
do
```

```
{ if (i % 2 == 1)
```

```
{
```

```
printf("%d\n", i);
```

```
}
```

```
i++;
```

```
}
```

```
while (i <= n);
```

```
getch();
```

```
}
```

④ Algorithm →

1.] Start

2.] Initialize two Variable with static Variable
 $n = 50$ & $i = 1$

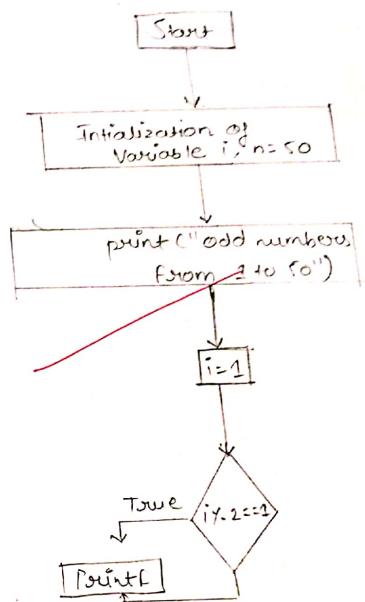
3.] Use while loop for printing ^{iteratively} the numbers from 1 to 50.

4.] Use if conditional Statement to check whether given number is even or odd.

5.] Increment the value of i by 1.

6.] Display the Appropriate Output.

7.] Stop.



c] Aim:- Write a C program to print sum of all even numbers I to n using for loop.

Source Code →

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
    int i, n, sum = 0;
```

```
    clrscr();
```

```
    printf(" Enter the Range");
```

```
    scanf("%d", &n);
```

```
    for (i = 2; i <= n; i = i + 2)
```

```
{
```

```
        sum = sum + i;
```

```
}
```

```
    printf(" Sum of all even numbers upto the Range  
are: ", sum);
```

```
} getch();
```

QUESTION

② Algorithm →

1.] Start

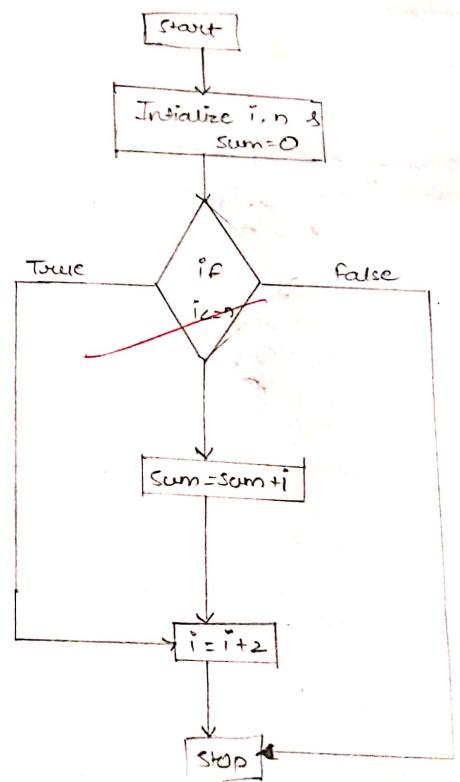
2.] Initialize the three variables are i, n, sum = 0
Variables are initialized.

3.] use for loop to check the given range.
the start.

4.] Add the current given Number.

5.] Display the Appropriate Output.

6.] Stop.



Output →
Enter the elements into Array

3

5

6

7

Entered array elements are: 3 4 5 6 7
Sum of elements is: 25

Practical - 5

Program:- To find largest of 3 numbers.

Code →

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int i, num[3], sum=0;
    clrscr();
    printf("Enter the Element into the Array");
    for (i=0; i<3; i++)
        scanf("%d", &num[i]);
    printf("\n Entered array elements are");
    for (i=0; i<3; i++)
        printf("\n %d", num[i]);
    sum = sum + num[i];
    printf("\n Sum of elements is: %d", sum);
    getch();
}
```

Program 2:- Find largest of 10 numbers.

Code →

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int i, num[10], l;
    clrscr();
    l = 0;
```

#include <stdio.h>
 #include <conio.h>
 main()
 {
 int i, num[10];
 clrscr();
 printf("Enter 10 values in array");
 for (i=0; i<10; i++)
 scanf("%d", &num[i]);
 i = num[0];
 for (i=1; i<10; i++)
 if (i > num[i])
 i = num[i];
 printf("Largest number is %d", i);
 }

Program 3 → find the number of positive numbers in the array.

Code →
 #include <stdio.h>
 #include <conio.h>
 void main()
 {

int i, num[10], p;
 clrscr();
 printf("Enter the value into array");
 for (i=0; i<10; i++)
 scanf("%d", &num[i]);
 p = 0;
 for (i=1; i<10; i++)

Output →
 Enter the value in Array 2

4

3

6

8

9

10

11

13

Largest number is: 13

Output →
 Enter the value into array

-55

22

5

-3

4

91

16

-19

20

No. of positive number present are:

Output →
Enter the value in a array

2
3
4
5
6
7
8
9

No. of odd number is: 5

if (num[i] > 0)
{
 p = p + 1;
}

printf(" No. of positive number in the
array ", p);

A) Find the no. of odd number.

Code →

#include <iostream.h>
#include <conio.h>
void main()
{
 int i, num[10]; p;
 clrscr();
 printf(" Enter the Value into array ");
 for (i = 0; i < 10; i++)
 scanf(" %d ", &num[i]);
 p = 0;
 for (i = 0; i < 10; i++)
 {
 if (num[i] > 0 & i % 2 == 1)
 {
 if (num[i] > 0) p = p + 1
 }
 }
}

~~point C "no. of odd no is 17, odd no. is 18"~~

8. getch(0);

~~int i;
for(i=0;i<1000;i++)~~