

Date \_\_\_\_\_

Page No.: 4

output →

Hello world

Date \_\_\_\_\_

// write

put

#im

#mc

void

{}

close

get  
3

C program → 1

1/ Write a program to display Hello world.

Input →

```
#include <stdio.h>
#include <conio.h>
void main()
{
    clrscr();
    printf("Hello world");
    getch();
}
```

= output →

The value of a is 50

The value of b is A

The value of c is 5.5

The value of d is 6.87657

4 Write

input →

#includ

#includ

void m

s

int c

char

float

double

clrscr

prim

prim

prim

prim

getch

3

C program → 2

// Write a program to display a concept of datatype.  
input →

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

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

```
void main()
```

```
{
```

```
int a = 50;
```

```
char b = 'A';
```

```
float c = 5.5;
```

```
double d = 6.87657;
```

```
clrscr();
```

```
printf("The value of a is %d", a);
```

```
printf("The value of b is %c", b);
```

```
printf("The value of c is %f", c);
```

```
printf("The value of d is %lf", d);
```

```
getch();
```

```
}
```

Output →

Addition of a and b is 30

Subtraction of a and b is 10

Multiplication of a and b is 200

Division of a and b is 2

Value of c is 0

C program → 3

Write a program to implement the concept of Arithmetic operators.

input →

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

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

```
void main()
```

```
{
```

```
int a = 20;
```

```
int b = 10;
```

```
int c;
```

```
clrscr();
```

```
c = a + b;
```

```
printf("Addition of a and b is %d\n", c);
```

```
c = a - b;
```

```
printf("Subtraction of a and b is %d\n", c);
```

```
c = a * b;
```

```
printf("Multiplication of a and b is %d\n", c);
```

```
c = a / b;
```

```
printf("Division of a and b is %d\n", c);
```

```
c = a % b;
```

```
printf("Value of c is %d\n", c);
```

```
getch();
```

```
}
```

output →

The result of  $a < b = 0$ The result of  $a > b = 1$ The result of  $a \leq b = 0$ The result of  $a \geq b = 1$ The result of  $a == b = 0$ The result of  $a != b = 1$ 

write a program

input →

#include &lt;

#include &lt;

void main()

{

int a =

clrscr();

printf("-

printf("-

printf("-

printf("-

printf("-

printf("-

printf("-

getch();

3

C program → 4

//Write a program to implement the concept of relational operators.

input →

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

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

```
void main()
```

```
{
```

```
int a = 5, b = 9;
```

```
clrscr();
```

```
printf("The result of a < b = %d\n", a < b);
```

```
printf("The result of a > b = %d\n", a > b);
```

```
printf("The result of a <= b = %d\n", a <= b);
```

```
printf("The result of a >= b = %d\n", a >= b);
```

```
printf("The result of a == b = %d\n", a == b);
```

```
printf("The result of a != b = %d\n", a != b);
```

```
getch();
```

3

Date \_\_\_/\_\_\_/\_\_\_

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Output →

Result of AND operator = 0

Result of OR operator = 0 -

Result of NOT operator = 1

Date \_\_\_/\_\_\_/\_\_\_

write a p

input →

#include <

#include <

void main()

{

int a =

clrscr();

printf("a =");

printf("%d", a);

getch();

}

C program → 5

Write a program to implement the concept of logical op.

input →

```
#include <stdio.h>
#include <conio.h>
void main()
```

{

```
int a = 20, b = 30, c = 40;
```

```
clrscr();
```

```
printf("Result of AND operator = %d", (a < b) && (a < c));
printf("Result of OR operator = %d", (a < b) || (a < c));
printf("Result of NOT operator = %d", !(a < b && a < c));
getch();
```

}

Output → Increment & Decrement operator

The value of  $a = 10$

The value of pre-increment = 11

The value of post-increment = 11

The value of pre-decrement = 11

The value of post-decrement = 11

// WAP to

Decr.

input →

#inc

#inc

void

{

in:

clrs

prin

print

print

printf

printf

printf

getch

3

C program → 6  
// WAP to implement the concept of increment &  
Decrement operators.

input →

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

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

```
void main()
```

```
{
```

```
    int a = 10, b = 20;
```

```
    clrscr();
```

```
    printf(" Increment & Decrement operator\n");
```

```
    printf("\n The value of a = %d ", a);
```

```
    printf("\n The value of pre-increment = %d ", ++a);
```

```
    printf("\n The value of post-increment = %d ", a++);
```

```
    printf("\n The value of pre-decrement = %d ", --a);
```

```
    printf("\n The value of post-decrement = %d ", a--);
```

```
    getch();
```

*F. cornuta*

~~parent function~~  
~~vertical stretch~~  
~~horizontal compression~~  
~~horizontal shift~~  
~~vertical shift~~

Date \_\_\_\_/\_\_\_\_/\_\_\_\_\_

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Date \_\_\_\_/\_\_\_\_/\_\_\_\_\_

Output → Assignment operator

Enter the value of a = 10

Value of  $a + a$  is 20

Value of  $a^- = a$  is 0

Value of  $a/1 = a$  is 1

// WAP to implement operator.

```
input →  
    #include <st  
    #include <co  
int main()  
{
```

```
int a;  
printf("1  
printf("2  
scanf("2  
printf("m)  
printf("Value  
printf(" Va  
printf(" Va  
getch();
```

C program → 7

// WAP to implement the concept of Assignment operator.

input →

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int a;
    printf(" Assignment operator \n");
    printf(" Enter the value of a = ");
    scanf(" %d", &a);
    printf(" Value of a+=a is %d \n", a+=a);
    printf(" Value of a-=a is %d \n", a-=a);
    printf(" Value of a*=a is %d \n", a*=a);
    printf(" Value of a/=a is %d ", a/=a);
    getch();
}
```

output → Bitwise operator

Enter the value of a = 5

Enter the value of b = 9

The output of AND operator = 1

The output of OR operator = 13

The output of XOR operator = 12

The output of complement of x = -6

The output of right shift of x = 4

The output of left shift of x = 18

Program - 8

WAP to implement the concept of Bitwise operators.

input →

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

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

```
void main()
```

```
{
```

```
int a, b;
```

```
clrscr();
```

```
printf(" Bitwise operator \n");
```

```
printf(" Enter the value of a = ");
```

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

```
printf(" Enter the value of b = ");
```

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

```
printf(" The output of AND operator = %d \n", a&b);
```

```
printf(" The output of OR operator = %d \n", a|b);
```

```
printf(" The output of XOR operator = %d \n", a^b);
```

```
printf(" The output of complement operator = %d \n", ~a);
```

```
printf(" The output of right shift operator = %d \n", b>>1);
```

```
printf(" The output of left shift operator = %d \n", b<<1);
```

```
getch();
```

Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

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Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

output → Conditional operator

Enter your age = 19  
You can vote.

WAP +

input →

#include

#include

int m

{

int

clr

pri

pri

Code :-  
getch  
g

C program → 9

// WAP to implement the concept of Conditional operator.  
input →

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

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

```
int main()
```

```
{
```

```
    int age;
```

```
    clrscr();
```

```
    printf(" Conditional operator ");
```

```
    printf("\n Enter your age = ");
```

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

```
(age >= 18) ? printf(" you can vote."): printf(" You can't  
vote ");
```

```
getch();
```

```
g
```

Output →

Sizeof int = 2 bytes  
Sizeof float = 4 bytes  
Sizeof double = 8 bytes  
Sizeof char = 1 bytes

(WAP to imp  
input →  
#include <  
#include <  
int main()  
{  
int a;  
float b;  
double c;  
char d;  
clrscr();  
printf(";  
printf(";  
printf(";  
printf(";  
getch();  
3

(1) WAP to implement the concept of sizeof operator.  
input →

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int a;
    float b;
    double c;
    char d;
    clrscr();
    printf(" Sizeof int = %lu bytes \n", sizeof(a));
    printf(" Sizeof float = %lu bytes \n", sizeof(b));
    printf(" Sizeof double = %lu bytes \n", sizeof(c));
    printf(" Sizeof char = %lu bytes \n", sizeof(d));
    getch();
}
```

Date \_\_\_/\_\_\_/\_\_\_

Page No.: 94

Date \_\_\_

Output →

Enter your no. = 94

No. is even.

1/WAP

input -

#in

#inc

int

{

i

3 get

C program → 11

// WAP to check the no. is even or odd.  
input →

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int num;
    clrscr();
    printf(" Enter your no. = ");
    scanf("%d", &num);
    if (num % 2 == 0)
    {
        printf(" No. is even.");
    }
    else
    {
        printf(" No. is odd.");
    }
    getch();
}
```

Date \_\_\_\_\_

Page No. 26

Output →

Enter your two values = 10 5  
the output = 15.

Date \_\_\_\_\_

'WAP u

through

IInd m

input →

#incl

#incl

int

{

int

clr

print

c =

print

getch

3

C program → 12

// WAP using ternary operator insert two value through Keyboard if 1st number is greater than 2nd number perform addition otherwise subtraction  
input →

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int a,b,c,d;
    clrscr();
    printf(" Enter your two values = ");
    scanf(" %d %d ", &a, &b);
    c= (a>b ? a+b : a-b);
    printf(" the output = %d ", c);
    getch();
}
```

Date / /

Output →

Enter your length and breadth = 10 20

Perimeter of rectangle = 60

Area of rectangle = 200

Date / /

WAP to

area

input →

#include

#include

int main

{

int

class

print

S

printf("

printf("

getch()

10 20

C program → 13

// WAP to find perimeter of rectangle and its area also.

input →

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int l,b;
    clrscr();
    printf(" Enter your length and breadth = ");
    scanf(" %d %d ", &l, &b);
    printf(" \n Perimeter of rectangle = %d ", 2*(l+b));
    printf(" \n Area of rectangle = %d ", l * b);
    getch();
}
```

out put →

The sales value of the product = 24000

The depreciation value ~~of~~ is = 1000

The sales value after four year of the product = 10000

C program → 14

Find out the sales value of a product w/c purchase in ₹4000. What is the sales value after four year of this product if depiction value is 1000 Rs/year.  
input →

```
#include <stdio.h>
#include <conio.h>
int main()
{
```

```
int pv = 24000, t = 4, dv = 1000, sv;
```

```
clrscr();
```

```
printf("The sales value of the product =");
```

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

```
printf("The depiction value is = %d", dv);
```

```
printf(" per year ₹m");
```

```
sv = pv - (dv * t);
```

```
printf("The sales value after four year");
```

```
printf(" of the product is = %d Rs", sv);
```

```
getch();
```

Date \_\_\_/\_\_\_/\_\_\_

Page No.: 32

Date .

Output →

Enter student marks = 95  
Grade A.

C program → 15

WAP to calculate the grade of a student according to the specify marks if marks > 85 and < 100 than print grade A, if marks > 60 and < 85 then print grade B+, if marks > 40 and < 60 then print B, if marks > 30 and < 40 then print grade C otherwise you are fail.

```

input → #include <stdio.h>
#include <conio.h>
int main()
{
    int m;
    clrscr();
    printf(" Enter student marks = ");
    scanf("%d", &m);
    if (m > 85 && m < 100)
    {
        printf(" Grade A ");
    }
    else if (m > 60 && m < 85)
    {
        printf(" Grade B+ ");
    }
    else if (m > 40 && m < 60)
    {
        printf(" Grade B ");
    }
    else if (m > 30 && m < 40)
    {
        printf(" Grade C ");
    }
    else
    {
        printf(" You are fail ");
    }
    getch();
}

```

*Chitra* *getch();*

"You must be the change you want to see in the world." —Mahatma Gandhi.

Output →

Enter three digit 3 no.= 428 512 602

No. 3 is largest

C program → IG

// WAP to find the largest no. of 3.

input →

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

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

```
int main()
```

```
{
```

```
    int a,b,c;
```

```
    clrscr();
```

```
    printf(" Enter three digit 3 no. = ");
```

```
    scanf("%d %d %d", &a, &b, &c);
```

```
    if (a > b & a > c)
```

```
{
```

```
        printf(" No. 1 is largest");
```

```
}
```

```
    else if ( b > a & b > c)
```

```
{
```

```
        printf(" No. 2 is largest");
```

```
}
```

```
    else
```

```
{
```

```
        printf(" No. 3 is largest");
```

```
}
```

```
    getch();
```

```
}
```

Date \_\_\_/\_\_\_/\_\_\_

Page No.: 36

Output →

Enter your num = 46  
No. is positive.

C program → 17

// WAP to find the positive or negative.

input →

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

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

```
int main()
```

```
{
```

```
    int num;
```

```
    clrscr();
```

```
    printf(" Enter your num = ");
```

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

```
    if (num > 0)
```

```
{
```

```
        printf(" No. is positive");
```

```
}
```

```
else
```

```
{
```

```
    printf(" No. is negative");
```

```
}
```

```
getch();
```

Date / /

output →

Enter the temperature in celsius = 12

The value of Fahrenheit is = 53.6

Date / /

// WAP

input

#in

#in

void

{

f

cl

pr

f =

P

ge

{}

Date \_\_\_ / \_\_\_ / \_\_\_

Page No.: 39

// WAP to convert celsius to Fahrenheit.

input →

```
#include <stdio.h>
#include <conio.h>
void main()
{
    float f, c;
    clrscr();
    printf(" Enter the temperature in celsius = ");
    scanf(" %f ", &c);
    f = c * (9 / 5) + 32;
    printf("\n The value of Fahrenheit is = %f ", f);
    getch();
}
```

Date 1/1/

Output →

Enter the Basic salary = 25000

Gross salary of this employee = 34000

Date \_\_\_/\_\_\_/\_\_\_

C program → 19

// WAP to find the Gross salary if the Basic salary is less than or equal to 10000 then HRA = 8% of the basic, and DA = 10% of the basic. Basic salary is less than or equal to 20000 then HRA = 16% and DA = 20%. Basic salary is greater than 20000 then HRA = 24% and DA = 30%. Gross salary = basic + HRA + DA.

input →

```
#include <stdio.h>
#include <conio.h>
void main()
{
    float HRA, DA, Basic, gs;
```

clrscr();

```
printf(" Enter the Basic salary = ");
scanf("%f", &Basic);
```

```
if (Basic <= 10000)
```

$$HRA = (\text{Basic} * 8) / 100;$$

$$DA = (\text{Basic} * 10) / 100;$$

{}

```
else if (Basic <= 20000)
```

{}

$$HRA = (\text{Basic} * 16) / 100;$$

$$DA = (\text{Basic} * 20) / 100;$$

{}

```
else
```

{}

$$HRA = (\text{Basic} * 24) / 100;$$

$$DA = (\text{Basic} * 30) / 100;$$

{}

$$gs = \text{Basic} + HRA + DA;$$

```
printf("\n Gross Salary of this employee = %f", gs);
getch();
```

Date 1/1

Output →

Enter five subject marks = 91

96

94

93

92

first division

C program → 20

// WAP to find the percentage of student if percentage is greater equal to 80 print first division, if the percentage is greater than equal to 50 write second division, if the percentage is greater than 40 print third division, else print fail.

input →

```
#include <stdio.h>
#include <conio.h>
void main()
{
    float m1, m2, m3, m4, m5, p;
    clrscr();
    printf("Enter five subject marks = ");
    scanf("%f %f %f %f %f", &m1, &m2, &m3, &m4, &m5);
    p = (m1 + m2 + m3 + m4 + m5) * 100 / 500;
    if (p >= 80)
    {
        printf("\n First division");
    }
    else if (p >= 50)
    {
        printf("\n Second division");
    }
    else if (p >= 40)
    {
        printf("\n Third division");
    }
    else
    {
        printf(" You are fail");
    }
    getch();
}
```

Date \_\_\_\_/\_\_\_\_/\_\_\_\_\_

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output →

Enter two numbers = 15 20

20 is greater than 15.

C program → 21

// WAP to implement a concept of if-else statement.

→ input ↗

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

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

```
void main()
```

```
{
```

```
int a, b;
```

```
clrscr();
```

```
printf("Enter two numbers = ");
```

```
scanf("%d%d", &a, &b);
```

```
if (a > b)
```

```
{
```

```
    printf("%d is greater than %d.", a, b);
```

```
}
```

```
else
```

```
{
```

```
    printf("%d is greater than %d.", b, a);
```

```
}
```

```
getch();
```



Date \_\_\_/\_\_\_/\_\_\_

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Date \_\_\_/\_\_\_/\_\_\_

Output →

Enter your no. = 25

25 is odd

But Not divisible by 3.

WAP to

input →

#include <iostream.h>

#include <conio.h>

void main()

{

int n;

clrscr();

print

sc

if (n % 2 == 0)

{

printf("Even")

if (n % 3 == 0)

{

prim

}

else

{

prim

}

else

{

printf("Prime")

if (n % 5 == 0)

{

prim

}

else

{

C program-22

WAP to implement a concept of Nested-if else statement

\* input →

#include <stdio.h>

#include <conio.h>

void main()

{

int n;

clrscr();

printf(" Enter your no. = ");

scanf("%d", &n);

if (n % 2 == 0)

{

printf(" %d is even ", n);

if (n % 4 == 0)

{

printf("\n And divisible by 4");

}

else

{

printf("\n But Not divisible by 4");

}

else

{

printf(" %d is odd ", n);

if (n % 3 == 0)

{

printf("\n And divisible by 3");

}

else

{

printf("\n But Not divisible by 3."); }

getch();

Date 1/1/

Output →

Enter your no. = 21

Divisible by 3 But Not Divisible by 6

C program - 23

// WAP to implement a concept of nested else if ladder statement

⇒ input →

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int n;
    clrscr();
    printf(" Enter your no. = ");
    scanf("%d", &n);
    if (n % 2 == 0 && n % 10 != 0)
    {
        printf(" Divisible by 2 ");
        if (n % 4 == 0)
        {
            printf(" & Divisible by 4 ");
        }
        else
        {
            printf(" But Not Divisible by 4 ");
        }
    }
    else if (n % 5 == 0 && n % 3 != 0)
    {
        printf(" Divisible by 5 ");
        if (n % 10 == 0)
        {
            printf(" Divisible by 10 ");
        }
        else
        {
            printf(" Not Divisible by 10 ");
        }
    }
}
```

```
printf(" But Not Divisible by 10");
```

{

else

{

```
printf(" Divisible by 3");
```

```
if (n%6==0)
```

{

```
printf(" & Divisible by 6");
```

{

else

{

```
printf(" But Not Divisible by 6");
```

{

```
getch();
```

{

Output →

Enter your principle = 10000

Enter your rate = 10

Enter your time = 1

Simple Interest = 1000

Program - 24

WAP to find the Simple Interest.

Input →

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

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

```
void main()
```

```
{
```

```
float p, r, t, si;
```

```
clrscr();
```

```
printf(" Enter your principle = ");
```

```
scanf("%f", &p);
```

```
printf(" Enter your rate = ");
```

```
scanf("%f", &r);
```

```
printf(" Enter your time = ");
```

```
scanf("%f", &t);
```

```
si = p * r * t / 100;
```

```
printf("\n Simple Interest = %f ", si);
```

```
getch();
```

```
}
```

Date 1/1/

output →

Enter consumption unit = 203

Total Bill = ₹ 31.95

C program - 2.5

WAP to calculate Bill. (Electricity)  
An electric power distribution company charge its domestic consumer as follow

Consumption unit

0-200

201-400

401- 600

601- above

Rate of charge

Rs. 0.50 per unit

Rs 100 plus Rs 0.65 per unit excess of 200

Rs 230 plus Rs 0.80 per unit excess of 400

Rs 390 plus Rs 1.00 per unit excess of 600

⇒ input ↗

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

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

```
void main()
```

```
{
```

```
int cu;
```

```
float r, sc, amt, t;
```

```
clrscr();
```

```
printf("Enter consumption unit = ");
```

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

```
if (cu <= 200)
```

```
{
```

```
r = 0.50;
```

```
amt = cu * r;
```

```
sc = 00;
```

```
t = amt + sc;
```

```
}
```

```
else if (cu >= 201 && cu <= 400)
```

```
{
```

```
r = 0.65;
```

```
amt = cu * r;
```

```
sc = 100;
```

```
t = amt + sc;
```

```
}
```

Date 1/1/

else if ( $cu > 401$  ||  $cu \leq 600$ )  
 {

$r = 0.80;$

$amt = cu * r;$

$sc = 230;$

$t = amt + sc;$

}

else

{

$r = 1.00;$

$amt = cu * r;$

$sc = 390;$

$t = amt + sc;$

}

`printf(" \n Total Bill = %f ", t);`

`getch();`

### Output →

Enter your I<sup>st</sup> number = 10

Enter your II<sup>nd</sup> number = 5

What will you want to perform?

Addition - press = 1

Subtraction - press = 2

Multiplication - press = 3

Division - press = 4

Modulation - press = 5

Enter your choice = 3

Multiplication (10 \* 5) = 50

Date \_\_\_/\_\_\_/\_\_\_

C program - 26  
 //WAP (calculator) to implement the concept of switch statement.

→ input →

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

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

```
void main()
```

```
{
```

```
    int a, b, choice;
```

```
    clrscr();
```

```
    printf(" Enter your Ist number = ");
```

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

```
    printf(" Enter your IInd number = ");
```

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

```
    printf(" What will you want to perform ? ");
```

```
    printf("\n Addition - press = 1 ");
```

```
    printf("\n Subtraction - press = 2 ");
```

```
    printf("\n Multiplication - press = 3 ");
```

```
    printf("\n Division - press = 4 ");
```

```
    printf("\n Modulation - press = 5 ");
```

```
    printf("\n Enter your choice = ");
```

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

```
switch (choice)
```

```
{
```

```
    case 1:
```

```
{
```

```
        printf(" Addition (%d + %d) = %d ", a, b, a+b);
```

```
        break;
```

```
}
```

```
    case 2:
```

```
{
```

```
        printf(" Subtraction (%d - %d) = %d ", a, b, a-b);
```

```
        break;
```

Date / /

{

case 3:

{

```
printf("Multiplication (%d * %d) = %d", a, b, a*b);
break;
```

{

case 4:

{

```
printf("Division (%d / %d) = %d", a, b, a/b);
break;
```

{

case 5:

{

```
printf("Modulation (%d %d %d) = %d", a, b, a%b);
break;
```

{

default:

```
printf("Please enter right choice");
```

{

getch();

{

Output →

Enter the character b/w (a-z) = d

This character is consonant.

Date / /

// WAP to

input →

#include

#include

void m

{

char

char

print

sc

switch

{

case

{

pri

br

{

case

{

p

br

{

case

{

pr

br

{

case

{

pr

br

{

C program - 27

// WAP to find the vowel and consonant using switch case.

input →

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

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

```
void main()
```

```
{
```

```
    char ch;
```

```
    clrscr();
```

```
    printf(" Enter the character b/w (a-z) = ");
```

```
    scanf("%c", &ch);
```

```
    switch(ch)
```

```
{
```

```
        case 'a':
```

```
            printf("\n a is a vowel");
```

```
            break;
```

```
}
```

```
        case 'e':
```

```
{
```

```
            printf("\n e is a vowel");
```

```
            break;
```

```
}
```

```
        case 'i':
```

```
{
```

```
            printf("\n i is a vowel");
```

```
            break;
```

```
}
```

```
        case 'o':
```

```
{
```

```
            printf("\n o is a vowel");
```

```
            break;
```

```
}
```

```
        case 'u':
```

Chitra

{

```
    printf("\n u is a vowel");  
    break;
```

}

```
default:
```

```
    printf("\n This character is consonant");
```

}

```
getch();
```

Output →

Enter your no. = 10

The sum of 1-10 is 55

C program - 28

// WAP to display the sum of first n numbers using  
for loop

input →

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

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

```
void main()
```

```
{
```

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

```
clrscr();
```

```
printf("Enter your no. = ");
```

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

```
for(i=1; i<=n; i++)
```

```
{
```

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

```
}
```

```
printf("\n The sum of 1-%d is %d", n, sum);
```

```
getch();
```

```
}
```

Date 1/1/

output →

Natural number 1-10 is

1

2

3

4

5

6

7

8

9

10

Date \_\_\_/\_\_\_/\_\_\_

Page No.: 61

1/ WAP to display first 10 natural number using for loop  
⇒ input →

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

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

```
void main()
```

{

```
int i, n = 10;
```

```
clrscr();
```

```
printf("Natural number 1-10 is \n");
```

```
for (i = 1; i <= n; i++)
```

{

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

}

```
getch();
```

{

Output →

Enter the number = 5

The factorial of 5 = 120

Program-30  
//WAP to find the factorial of the number using for loop.  
→ input → #include <stdio.h>

→ input →

#include <stdio.h>

```
#include <config.h>
```

void main()

۸

int fact = 1, n, i;

close();

```
printf ("\n Enter the number = ");
```

scanf("%d", &n);

ft  
s

fact = fact \* i;

2

```
printf("The factorial of %d = %d", n, fact);
```

~~getch();~~

Output →

Enter your no. = 10

The sum of even number from 1 to 10  
is 30

Date

// WAP

using

⇒ int

#in

#in

void

{

im

cl

pr

pr

for

{}

}

pri

getch

}

}

}

}

}

}

}



Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

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C program - 31

// WAP to find the sum of even number from 1 to n  
using for loop.

⇒ input →

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int i, n, sum = 0;
    clrscr();
    printf(" Enter your no. = ");
    scanf("%d", &n);
    printf(" The sum of even number from 1 to %d ", n);
    printf("\n");
    for(i = 1; i <= n; i++)
    {
        if(i % 2 == 0)
            sum = sum + i;
    }
    printf(" is %d ", sum);
    getch();
}
```

Date 1/1/

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Output →

Enter your no. = 10

The sum of odd no. from 1 to 10 is 25

3 pages

C program - 32

// WAP to find the sum of odd number using for loop.

→ input →

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

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

```
void main()
```

```
{
```

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

```
clrscr();
```

```
printf("Enter your no.= ");
```

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

```
printf("The sum of odd no. from 1 to %d is ", n);
```

```
for(j=1; j <= n; j++)
```

```
{
```

```
if(j % 2 != 0)
```

```
{
```

```
sum = sum + j;
```

```
}
```

```
}
```

```
printf("%d", sum);
```

```
getch();
```

Date 1/1/

output →

a b c d e f g h i j k l  
m n o p q r s t u v w x  
y z

Date / /

Page No.: 69

1/1  
dots level  
3 points

C program - 33

// WAP to print the alphabets from a to z using for loop

input →

```
#include < stdio.h >
#include < conio.h >
void main()
{
    int i, ch = 122;
    clrscr();
    for(i = 97; i <= ch; i++)
    {
        printf("%c\t", i);
    }
    getch();
```

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Date \_\_\_\_\_

Date \_\_\_\_\_

Output →

Enter your no. = 10

The reverse counting from 10 to 1 is

10      9      8      7      6      5      4      3      2      1

Date 1/1/

(3 points) Level ..

C program - 34

// WAP to print the reverse counting from n to 1 for loop

→ input →

#include &lt; stdio.h &gt;

#include &lt; conio.h &gt;

void main()

{

int i, n;

clrscr();

printf(" Enter your no. = ");

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

printf(" The reverse counting from %d to 1 is \n", n);

for (i = n; i &gt;= 1; i--)

{

printf("%d\t", i);

}

getch();

}

Date \_\_\_/\_\_\_/\_\_\_

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output →

Enter the no. = 5

1      2      3      4      5

72

Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Page No.: 73

## C program - 35

//WAP ((1 to n no.) to implement the concept of while loop).

#imclu

#include <stdio.h>

#include <comio.h>

void main()

S

int i=1,m;

(JRSCH);

```
printf(" \n Enter the no. = ");
```

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

while ( i <= n )

8

printf("%d \t", i);

j++;

3

getch();

Output →

Table of 2 is

2

4

6

8

10

12

14

16

18

20

C program - 36

// WAP to print the table of 2 using while loop

→ input →

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

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

```
void main()
```

```
{
```

```
int i;
```

```
clrscr();
```

```
printf("Table of 2 is \n");
```

```
while (i <= 10)
```

```
{
```

```
printf("%d \n", 2 * i);
```

```
i++;
```

```
} getch();
```

```
}
```

Date 1/1/

output →

The alphabet of a do  $\exists$  is  
a b c d e f g h i  
j k l m n o p q r  
s t u v w n y z

Date / /

C program - 37  
 // WAP to print alphabet a to z using while loop  
 → input →

```
#include < stdio.h >
#include < conio.h >
void main()
```

{

```
int i = 97;
```

```
clrscr();
```

```
printf("The alphabet of a to z is \n");
```

```
while (i ≤ 122)
```

{

```
printf("%c \t", i);
```

```
i++;
```

{

```
getch();
```

{

output →

Enter your no. = 10

Even no. b/w 1 to 10 is

2

4

6

8

10

Odd no. b/w 1 to 10 is

1

3

5

7

9

Date / /

Page No.: 79

C program - 38

/\* WAP to find the even/odd no. from 1 to n.  
using while loop.

→ input

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

```
int i=1, n, j=1;
```

```
clrscr();
```

```
printf(" Enter your no. = ");
scanf("%d", &n);
```

```
printf(" Even no. b/w 1 to %d is \n", n);
while (i <= n)
```

```
{
```

```
if (i % 2 == 0)
```

```
{
```

```
printf(" even \n", i);
```

```
}
```

```
i++;
```

```
g
```

```
printf(" odd no. b/w 1 to %d is \n", n);
```

```
while (j <= n)
```

```
{
```

```
if (j % 2 != 0)
```

```
{
```

```
printf(" odd \n", j);
```

```
}
```

```
j++;
```

```
 getch();
```

output →

Enter your range = -2 2  
Positive no. b/w -2 - 2 is

1

2

Negative no. b/w -2 - 2 is  
-2

-1

C program - 39

// WAP to find the positive / negative no. b/w a range  
using while loop.

⇒ input →

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

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

```
void main()
```

```
{
```

```
int i=1, a, b; j;
```

```
clrscr();
```

```
printf(" Enter your range = ");
```

```
scanf("%d %d", &a, &b);
```

```
printf(" Positive no. b/w %d-%d is \n", a, b);
```

```
i = a;
```

```
while (i <= b)
```

```
{
```

```
if (i > 0)
```

```
{
```

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

```
}
```

```
j++; }
```

```
printf(" Negative no b/w %d-%d is \n", a, b);
```

```
j = a;
```

```
while (j <= b)
```

```
{
```

```
if (j < 0)
```

```
{
```

```
print ("%d \n", j);
```

```
}
```

```
j++; }
```

```
getch();
```

Date \_\_\_/\_\_\_/\_\_\_

Page No.: 02

Output →

Enter your no. = 7  
7 is prime no.

Q2

Date 1/1/

Level 2  
Spiral

Page No.: Q3

// WAP to find the prime no. using while loop.

input ↗

#include <stdio.h>

#include <conio.h>

void main()

{

int i = 2, n, p = 0;

clrscr();

printf(" Enter your no. = ");

scanf("%d", &n);

while(i <= n/2)

{

if (n % i == 0)

{

    p++;

}

    i++;

}

if (p == 0)

{

    printf("%d is prime no.", n);

}

else

{

    printf("%d is not prime no.", n);

}

getch();

Date \_\_\_/\_\_\_/\_\_\_

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Output →

Enter your no. = 15

15 is not prime no.

Date \_\_\_\_\_

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C program - 41

// WAP to find the Prime no. using for loop.

input →

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

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

```
void main()
```

{

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

```
clrscr();
```

```
printf("Enter your no. = ");
```

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

```
for(i=1; i <= n; i++)
```

{

```
if(n % i == 0)
```

{

```
count++;
```

}

```
if(count == 2)
```

{

```
printf("%d is prime no.", n);
```

}

```
else
```

{

```
printf("%d is not prime no.", n);
```

}

```
getch();
```

Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Page No.: 86

output →

Enter the number = 10

0 1 1 2 3 5 8 13 21 34

C program-49  
//WAP to print Fibonacci Series  
loop.

→ input →

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

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

```
void main()
```

```
{
```

```
int a=0, b=1, c, i, n;
```

```
clrscr();
```

```
printf("n Enter the number = ");
```

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

```
for(i=1; i <= n; i++)
```

```
{
```

```
printf(" %d ", a)
```

```
c=a+b;
```

```
a=b;
```

```
b=c;
```

```
}
```

```
getch();
```

Date \_\_\_ / \_\_\_ / \_\_\_

Page No.: 98

Output →

11

C program - 43

// Write a program to implement the concept of do while loop statement.

→ input →

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

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

```
void main()
```

```
{
```

```
int i=11;
```

```
clrscr();
```

```
do
```

```
{
```

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

```
i++;
```

```
} while (i <= 10);
```

```
getch();
```

```
}
```

Date \_\_\_/\_\_\_/\_\_\_

Page No.: 90

Output →

Enter your no. = 10

Sum = 55

Date / /

Page No.: 91

C program - 44

// WAP to find the sum of 1 to n number using do while loop.

input →

#include &lt;stdio.h&gt;

#include &lt;conio.h&gt;

void main()

{

int i = 1, n; sum = 0;

clrscr();

printf("Enter your no. = ");

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

do {

sum = sum + i;

i++;

} while (i &lt;= n);

printf("Sum = %d", sum);

getch();

*Mustard*

Date \_\_\_ / \_\_\_ / \_\_\_

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Output →

- 9 understand the use of continue
- 9 understand the use of continue
- 9 understand the use of continue

4

5

Out of loop

Date \_\_\_/\_\_\_/\_\_\_

Page No.: 93

C-program-45  
 //WAP to understand the use of continue statement.

input →

```
#include <stdio.h>
#include <conio.h>
void main()
{
  int n;
```

```
clrscr();
for(n=1; n <= 5; n++)
{
```

```
if (n <= 3)
```

```
printf("\n In understand the use of continue");
```

```
continue;
```

```
}
```

```
printf("In odd", n);
```

```
}
```

```
printf("\n Out of loop");
```

```
getch();
```

```
}
```

Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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Output →

Enter num = 2

World

Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

C-program-46

//WAP to understand the concept of goto statement;

input →

```
#include <stdio.h>
#include <conio.h>
Void main()
{
    int n;
    clrscr();
    printf(" \n Enter num = ");
    scanf(" %d ", &n);
    if (n <= 3)
        goto level1;
    printf(" \n Hello ");
}
level1:
printf(" \n world ");
getch();
```

Output →

Enter any no. to table = 4

$$4 \times 1 = 4$$

$$4 \times 2 = 8$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$

$$4 \times 5 = 20$$

$$4 \times 6 = 24$$

$$4 \times 7 = 28$$

$$4 \times 8 = 32$$

$$4 \times 9 = 36$$

$$4 \times 10 = 40$$

// WAP

input →

#incl

#incl

void

{

int

clra

pr

for

{

p

g

getch

Date / /

C-program-47

// WAP to print any table by using for loop.

input

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

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

```
void main()
```

```
{
```

```
int i, n;
```

```
clrscr();
```

```
printf(" Enter any no. to table = ");
```

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

```
for (i=1; i<=10; i++)
```

```
{
```

```
printf("\t\t%d x %d = %d\n", n, i, i*n);
```

```
}
```

```
getch();
```

```
}
```

"Swami Vivekananda"

Date \_\_\_/\_\_\_/\_\_\_

Page No.: 98

output →

Enter your no. = 6  
1, 2, 3, 6

C-program - 48

"WAP to find the factors of a no."

input →  
#include <stdio.h>

#include <conio.h>

void main()

{

int i, n;

clrscr();

printf("Enter your no. = ");  
scanf("%d", &n);

for (i=1; i<=n; i++)

{

if (n % i == 0)

{

printf("%d,", i);

}

}

getch();

{

Date / /

Page No.: 100

Output →

Enter a year = 2019

leap year & Feb is 29.

Date

//WAP

input

#in

#in

void

s

j

cl

//WAP to find year is leap year or not.  
input →

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

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

```
void main()
```

```
{
```

```
int y;
```

```
clrscr();
```

```
printf(" Enter a year = ");
```

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

```
if (y % 400 == 0)
```

```
{
```

```
printf(" leap year");
```

```
}
```

```
else if (y % 100 == 0)
```

```
{
```

```
printf(" Not a leap year");
```

```
}
```

```
else if (y % 4 == 0)
```

```
{
```

```
printf(" leap year & Feb is 29");
```

```
}
```

```
else
```

```
{
```

```
printf(" Not a leap year & feb is 28");
```

```
}
```

```
 getch();
```

```
}
```

Date \_\_\_/\_\_\_/\_\_\_

Output →

Enter a no. = 153

No. is Armstrong.

C program - 50

//WAP to accept 3 digit no. & print no. is Armstrong or not.

input →

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

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

```
void main()
```

```
{
```

```
    int num, j, res, rem, temp;
```

```
    clrscr();
```

```
    printf(" Enter a no. = ");
```

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

```
    temp = num;
```

```
    while (num > 0)
```

```
{
```

```
        rem = num % 10;
```

```
        res += rem * rem * rem;
```

```
        num = num / 10;
```

```
}
```

```
if (res == temp)
```

```
{
```

```
    printf(" \n No. is Armstrong ");
```

```
}
```

```
else
```

```
{
```

```
    printf(" \n Not Armstrong ");
```

```
}
```

```
, getch();
```

Output →

Enter a no. = 191

No. is palindrome.

// WAP +

input →

#include

#include

void m

{}

int  
class

temp =

if  
{}

g

else  
{}

}

getch  
{}

1 WAP to accept no. & print no. is Palindrome or not  
input →

```
#include <stdio.h>
#include <conio.h>
void main()
```

{

```
int num, i, rev=0, rem, tem;
clrscr();
```

```
printf("Enter a no. = ");
scanf("%d", &num);
```

```
tem = num;
```

```
while (num > 0)
```

{

```
rem = num % 10;
```

```
rev = rev * 10 + rem;
```

```
num = num / 10;
```

}

```
if (rev == tem)
```

{

```
printf("\n No. is palindrome");
```

}

else

{

```
printf("\n Not palindrome");
```

}

```
getch();
```

}