GLA UNIVERSITY MATHURA



SESSION - 2023

PRACTICAL FILE

COMPUTER PROGRAMMING

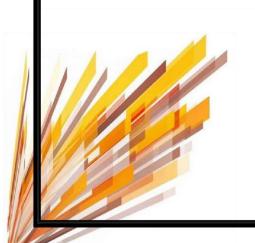
BCSG-0002

SECTION - AU

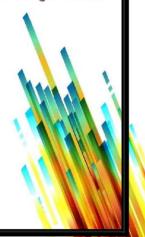
University Roll No.-2315000029

SUBBMITED BY

SUBBMITED TO ABHAY VERMA MS GURPREETKAUR







Q1.WAP to check number is Armstrong or not?

```
#include <stdio.h>
#include <math.h>
int main() {
  int num, temp, org, rem, result = 0, a = 0;
  printf("Enter an integer: ");
  scanf("%d", &num);
  org = num;
  temp=num;
  while (org != 0) {
    org = 10;
    a++;
  int sum = 0;
  while (num > 0) {
    rem = num % 10;
    sum = sum + pow(rem, a);
    num /= 10;
  if (sum == temp) {
    printf("%d is an Armstrong number.\n", temp);
  } else {
    printf("%d 1is not an Armstrong number.\n",temp);
  return 0;
```

OUTPUT-

```
Enter an integer: 12
2 is not an Armstrong number.

-----
Process exited after 3.104 seconds with return value
Press any key to continue . . .
```

Q2.WAP to print REVERSE of a number?

Q3.WAP to check number is Palindrome or not?

```
#include <stdio.h> int main() {
int n,rev=0,r,org; printf("ENTER
THE NUMBER:");
```

```
scanf("%d",&n);
org=n;
    while(n!=0)
    {
        r=n%10;
        rev=(rev*10+r);
        n=n/10;
    }
    if (rev==org)
printf("PLAINDROME");    else
        printf("NOT PLAINDROME");
}
```

Q4.WAP to check number is Perfect or not?

```
int main() {
  int num, sum = 0;

  // Input a number from the user
printf("Enter a positive integer: ");
  scanf("%d", &num);
```

#include <stdio.h>

```
// Find the sum of proper divisors
for (int i = 1; i < num; i++) {
    (num % i == 0) {
        sum += i;
    }
}

// Check if the number is a perfect number
if (sum == num) {
    printf("%d is a perfect number.\n", num);
} else {
    printf("%d is not a perfect number.\n", num);
}

return 0;

Enter a positive integer: 147
147 is not a perfect number.</pre>
```

Q5.WAP to print a Calender of a month?

```
#include <stdio.h>
#include <string.h>
#include <math.h> int
main()
{
    printf("\n30 DAY CALENDER OF A MONTH\n\n"); int
c=1;
    int n=1;
```

```
for (int i = 1; i <= n; i++)
          for (int j = 1; j <= 7; j++) {
               if(j==1)
printf("S\t");
                    printf("M\t");
if(j==2)
          if(j==3)
printf("Tu\t");
if(j==4)
                    printf("W\t");
          if(j==5)
printf("Th\t");
if(j==6)
                    printf("F\t");
          if(j==7)
printf("S\t");
printf("\n\n");
     c=1;
n=5;
     for (int i = 1; i <= n; i++)
     for (int j = 1; j <= 7; j++) {
if(c \le 30)
```

```
printf("%d\t",c);
     C++;
  printf("\n");
                       30 DAY CALENDER OF A MONTH
                               M
                                       Tu
                                                       Th
                               2
                                       3
                                               4
                                                       5
return 0;
                                       10
                                               11
                                                               13
                                                                        14
                                                       12
                       15
                               16
                                               18
                                                       19
                                                               20
                                                                        21
                       22
                                       24
                                               25
                                                       26
```

Q6.WAP to count the digits of Number?

```
#include <stdio.h>
int main()
{
    int a;
    printf("ENTER THE NUMBER:
"); scanf("%d",&a); if (a%2==0)
printf("NUMBER IS EVEN"); else
    printf("NUMBER IS ODD");
```

```
return 0; ENTER THE NUMBER: 34234
```

Q7.WAP to Check Number is even or odd?

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

```
int main()
    int a;
    printf("ENTER THE NUMBER:");
scanf("%d",&a); (a/2==0)?printf("NUMBER IS
EVEN"):printf("NUMBER IS ODD");
                                     ENTER THE NUMBER: 44
                                      NUMBER IS EVEN
  return 0;
    Q8.WAP to find factorial of a Number?
#include <stdio.h>
int main() {
n,fact=1;
  printf("Enter the number: ");
scanf("%d", &n);
  for(int i=n;i>0;i--)
         fact=fact*i;
  printf("Factorial of numbers %d is %d",n,fact);
return 0;
                            Enter the number: 8
                             actorial of numbers 8 is 40320
Q9..WAP to find factors of a Number?
#include <stdio.h>
int main() {
             int
n,count=0;
```

```
printf("ENTER THE NUMBER : ");
  scanf("%d",&n);
    for(int i=1; i<=n;i++)
    if(n%i==0)
printf("%d,",i);
                            ENTER THE NUMBER: 6
                            1,2,3,6,
}
Q10.WAP to print Fibonacci Series?
#include <stdio.h>
int main() { int n,
a=0, b=1, fb;
  printf("Enter the number of terms: ");
scanf("%d", &n);
                   printf("Fibonacci
Series: ");
  for(int i=1; i<=n; i++)
             printf(" %d ", a);
      fb = a + b;
a = b:
             b =
fb;
```

return 0;

Enter the number of terms: 8
Fibonacci Series: 0 1 1 2 3 5 8 13

```
Q11.WAP to check number is Positive or not?
#include <stdio.h>
#include <string.h> #include
<math.h>
int main()
    int a; printf("ENTER THE
    NUMBER: "); scanf("%d",&a); if
    (a==0)
    printf("NUMBER IS ZERO");
    else
        (a<0)?printf("NUMBER IS
NEGATIVE"):printf("NUMBER IS POSITIVE");
                          ENTER THE NUMBER: 4
  return 0;
                          NUMBER IS POSITIVE
```

Q12.WAP to print greatest among the Series of numbers?

```
#include<stdio.h>
int main()
    {
    int n,a,b=0;
```

```
printf("Enter the number of enteries: ");
    scanf("%d",&n);
         for (int i=1;i<=n;i++)
              printf("Enter %d number: ",i
);
             scanf("%d",&a);
if(b \le a)
                       b=a; }
                  {
else
              {
                  b=b; }
         printf("The greatest number is: %d",b);
                                        return 0;
}
Q13.WAP to print HCF of two numbers?
#include <stdio.h> int
main() {
    int n1,n2,hcf;
    printf("This gives the H.C.F of 2 numbers \n");
printf("Enter two integer: "); scanf("%d%d",&n1,&n2);
    for(int i=1;i<=n1 && i<=n2;i++)
         if(n1\%i==0 \&\& n2\%i==0){
         hcf=i;
                         This gives the H.C.F of 2 numbers
                         Enter two integer: 11
                         G.C.D of 11 and 22 is : 11
```

```
printf("G.C.D of %d and %d is : %d",n1,n2,hcf);
    return 0;
Q14.WAP to print LCM of two numbers?
#include <stdio.h>
int main()
    int a=1,n1,n2, max;
    printf("Enter n1 and n2 :");
    scanf("%d%d", &n1,&n2);
    max= (n1>n2) ? n1:n2; while
    (1)
        if((max%n1==0) \&\& (max%n2==0))
                 printf("The LCM of %d and %d is
:%d", n1, n2, max);
                 break;
             max=max+1;
                            Enter n1 and n2 :23
    return 0;
                            The LCM of 23 and 46 is :46
Q15.WAP to print list of prime number up to 100?
```

#include <stdio.h>

11

```
#include <string.h>
#include <math.h> int
main()
    int i,n,count,st=1,end=100;
for (n=st; n <= end; n++)
         count=0;
         for (int i = 2; i \le n/2; i++)
       if(n%i==0){
                 break;
count++;
              if(count==0
&& n!=1) {
       printf("%d ",n);
  return 0;
```

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

Q16.WAP to print number in Exponential, OCTAL and Hexadecimal?

```
#include <stdio.h>
#include <math.h> int
main()
    int a;
    printf("ENTER THE NUMBER:");
scanf("%d",&a);
                printf("THE NUMBER IN
OCTAL\t\t: %o\n",a);
                         printf("THE NUMBER IN
HEXADECIMAL\t:
%X\n",a);
        printf("THE NUMBER IN EXPONENTIAL\t:
%e",a);
  return 0;
Q18.WAP to print the SIZE of different DATA TYPES?
#include <stdio.h>
#include <string.h> #include <math.h>
int main()
printf("THE SIZE OF DATATYPES: \n"); printf("INT
    %d\n",sizeof(int));
                            printf("FLOAT
%d\n",sizeof(float));
                          printf("DOUBLE
%d\n",sizeof(double));
                             printf("LONG
%d\n",sizeof(long));
                            printf("CHAR
%d\n",sizeof(char));
                          printf("SIGNED
```

```
%d\n",sizeof(signed));
                                      SIZE OF DATATYPES:
printf("UNSIGNED:
%d\n",sizeof(unsigned));
    printf("SHORT
%d\n",sizeof(short));
                                   UNSIGNED: 4
                        return
0;
Q19.WAP to print prime factors of a number?
#include <stdio.h>
int main() {
int n;
  printf("Enter a positive integer: ");
scanf("%d", &n);
  printf("Prime factors of %d are: ", n);
//18
  int i = 2;
    while(i <= n)
    if (n \% i == 0)
       printf("%d ", i);
n = n / i;
    } else
                          Enter a positive integer: 55
       i++;
                          Prime factors of 55 are: 5 11
```

```
return 0;
Q20.WAP to check the number is prime or not?
#include <stdio.h>
int main() { int
num, count = 0;
  printf("Enter a positive integer: ");
  scanf("%d", &num); for
(int i = 1; i \le num; i++) {
if (num \% i == 0) {
       count++;
                           Enter a positive integer: 59
                           59 is prime
  if (count == 2) {
    printf("%d is prime", num);
  } else {
    printf("%d is not prime", num);
                           Enter a positive integer: 77
  return 0; }
                           77 is not prime
```

Q21. Write a program to print the following patterns: Ans.(a)

```
//ALL Triangle Pattern
                                        Right Angle triangle
#include <stdio.h>
#include <string.h> #include
<math.h> int main()
                                        VERTICALLY SYMETRICAL TRIANGLE
printf("Right Angle triangle");
printf("\n\n");
                                        MIRROR RIGHT ANGLED TRIANGLE
     int n=4;
     for (int i = 1; i \le n; i++)
                                          ICALLY SYMETRICAL OF MIRROR TRIANGLE
     for (int j = 1; j <= i; j++) {
printf("* ");
     printf("\n");
printf("\n\n");
printf("VERTICALLY SYMETRICAL TRIANGLE");
printf("\n\n");
     n=4;
     for (int i=n; i >= 1; i--)
     for (int j = 1; j \le i; j++) {
printf("* ");
     printf("\n");
```

```
printf("\n\n");
printf("MIRROR RIGHT ANGLED TRIANGLE");
printf("\n'); n=4;
    for (int i = 1; i <= n; i++)
         for (int k = n; k > i; k--)
       printf(" ");
    for (int j = 1; j <= i; j++)
       printf("* ");
    printf("\n");
printf("\n\n");
printf("VERTICALLY SYMETRICAL OF MIRROR
TRIANGLE"); printf("\n\n"); n=4;
    for (int i = n; i >= 1; i--)
         for (int k = n; k > i; k--)
       printf(" ");
    for (int j = 1; j <= i; j++)
```

```
printf("* ");
    printf("\n");
printf("\n\n");
  return 0;
(b)
#include <stdio.h>
#include <string.h>
#include <math.h> int
main()
printf("Right Angle triangle 1,2,3,4 by rows");
printf("\n\n");
    int n=4;
    for (int i = 1; i \le n; i++)
    for (int j = 1; j <= i; j++) {
printf("%d ",i);
    printf("\n");
printf("\nRight Angle triangle 1,2,3,4 by columns");
printf("\n\n");
```

```
n=4;
     for (int i = 1; i \le n; i++)
     for (int j = 1; j <= i; j++) {
                                        printf("%d ",j);
     printf("\n");
                                   Right Angle triangle 1,2,3,4 by rows
  return 0;
(c)
                                   Right Angle triangle 1,2,3,4 by columns
#include <stdio.h>
#include <string.h> #include
<math.h>
int main()
printf("ABCD SQUARE by rows");
printf("\n\n");
     char n='D';
     for (char i = 'A'; i <= n; i++)
     for (int j = 'A'; j \le n; j++) {
printf("%c ",i);
     printf("\n");
printf("\nABCD SQUARE by columns"); printf("\n\n");
```

```
n='D';
     for (char i = 'A'; i <= n; i++)
     for (int j = 'A'; j \le n; j++) {
printf("%c ",j);
     printf("\n");
printf("\nABCD TRIANGLE by
rows");
printf("\n\n");
                                           ВВ
     n='D':
     for (char i = 'A'; i <= n; i++)
                                           A
A B
     for (int j = 'A'; j \le i; j++) {
printf("%c ",i);
     printf("\n");
printf("\nABCD TRIANGLE by columns");
printf("\n\n");
     n='D';
     for (char i = 'A'; i <= n; i++)
     for (int j = 'A'; j <= i; j++) {
printf("%c ",j);
```

```
A A A A
B B B B
C C C C
D D D D

ABCD SQUARE by columns

A B C D
A B C D
A B C D
A B C D

ABCD TRIANGLE by rows

A
B B
C C C
D D D D

ABCD TRIANGLE by columns

A
A B
A B
A B C
A B C
A B C D
```

```
printf("\n");
  return 0;
(d)
#include <stdio.h>
#include <string.h> #include
<math.h>
int main()
printf("1-0 PATTERN ");
printf("\n\n");
    int n=3;
    for (int i = 1; i \le n; i++)
     for (int j = 1; j \le n; j++) {
         if (i==j)
printf("1");
               else
       printf("0 ");
     printf("\n");
  }
```

```
1-0 PATTERN
1 0 0
0 1 0
0 0 1
A to Y SQUARE by count increamnet
ABCDE
FGHIJ
KLMNO
PQRST
UVWXY
1 to 25 SQUARE by count increamnet
12345
1112131415
1617181920
2122232425
A to U Triangle by count increamnet
DEF
 HIJ
KLMNO
 QRSTU
```

```
printf("\nA to Y SQUARE by count increamnet");
printf("\n\n"); char count='A';
    n='E';
    for (char i = 'A'; i <= n; i++)
    for (char j = 'A'; j <= n; j++) {
printf("%c ",count);
count++;
    printf("\n");
printf("\n1 to 25 SQUARE by count increamnet");
printf("\n\n"); int c=1; n=5;
    for (int i = 1; i <= n; i++)
    for (int j = 1; j <= n; j++) {
printf("%d",c);
       C++;
    printf("\n");
printf("\nA to U Triangle by count increamnet");
printf("\n\n"); count='A';
    n='F';
    for (char i = 'A'; i <= n; i++)
```

```
for (char j = 'A'; j <= i; j++) {
      printf("%c ",count);
count++;
    printf("\n");
  return 0;
Q26.QUIZ SYSTEM -
//
    NAME- ABHAY VERMA
//
    SECTION -AU-1
//
                                                BTECH
CS23
#include <stdio.h>
#include <string.h>
#include <time.h> #include
<unistd.h>
int ch()
    int choice; printf("CHOICE
ANY ONE :");
                     scanf("
%d",&choice);
                return
choice;
```

```
int main()
printf("-----\n
WELCOME IN ONLINE QUIZ PORTAL \n------
----\n'');
start: char a;
int marks=0,p1=0,p2=0,p3=0,p4=0,p5=0;
char name[10], branch[10];
printf("ENTER YOUR NAME: ");
scanf("%s", name); printf("ENTER YOUR
BRANCH: ");
scanf("%s", branch); while(1){
printf("\nDO YOU WANT TO START THE QUIZ (Y/N): ");
scanf(" %c",&a);
   if (a=='Y' | | a=='y')
       printf("\n-----
\nNOTE: PER QUESTION 10 SECONDS\nCORRECT
ANSWER = 1 MARKS \nWRONG ANSWER = 0
MARKS\nNOTE: ALL QUESTIONS ARE MENDATORY\n----
 -----\n\n");
//Q1 printf("Q1.Which of the following is not a valid
data type in C?\n1) FLOAT\n2) INT\n3) DOUBLE\n4)
TRIPLE\n\n");
       int differ;
```

```
int s, e;
s = time('\0');
port1:
         int q1=ch();
         if (q1==4)
p1++;
         if(q1>4 | | q1==0)
             printf("WRONG OPTION CHOICE !!\n");
             goto port1;
         e = time('\0');
    differ = e-s;
if(differ<=10)
             printf("Time taken : %d seconds\n\n",
differ);
         else
         printf("YOU TAKE OVER TIME!!!\n\n");
         p1=0;
```

```
printf("Q2.Which Keyword is used to exit a
loop prematurely?\n1) Break \n2) Exit \n3) Stop\n4)
Last\n\n");
         differ;
    s, e;
    s = time('\0');
port2:
         int q2=ch();
         if (q2 = 1)
p2++;
         if(q2>4 || q2==0)
              printf("WRONG OPTION CHOICE !!\n");
              goto port2;
         e = time('\setminus 0');
    differ = e-s;
    if(differ<=10)
              printf("Time taken : %d seconds\n\n",
differ);
         else
```

```
printf("YOU TAKE OVER TIME!!!\n\n");
         p2=0;
//Q3
         printf("Q3.Which of the following is a valid way
to comment out a single line in C?\n1) //\n2) /*
*/\n3) --\n4) # \n\n");
         differ;
     s, e;
     s = time('\setminus 0');
port3:
         int q3=ch();
         if (q3==1)
p3++;
         if(q3>4 || q3==0)
              printf("WRONG OPTION CHOICE !!\n");
              goto port3;
         e = time('\setminus 0');
     differ = e-s;
if(differ<=10)
```

```
printf("Time taken : %d seconds\n\n",
differ);
         else
         printf("YOU TAKE OVER TIME!!!\n\n");
         p3=0;
//Q4 printf("Q4.Which library should be included for
handling strings in C?\n1) math.h\n2) string.h\n3)
stdio.h\n4) stdlib.h\n');
         differ;
             s =
    s, e;
time('\0');
port4:
         int q4=ch();
         if (q4==2)
p4++;
         if(q4>4 | | q4==0)
              printf("WRONG OPTION CHOICE !!\n");
             goto port4;
         e = time('\setminus 0');
```

```
differ = e-s;
    if(differ<=10)
             printf("Time taken : %d seconds\n\n",
differ);
         else
         printf("YOU TAKE OVER TIME!!!\n\n"); p4=0;
//Q5 printf("Q5.Which of the Loop that executes at
least once?\n1) While\n2) For\n3) Do-while\n4)
Switch\n\n");
         differ;
    s, e;
             S =
time('\0');
port5:
         int q5=ch();
         if (q5==3)
p5++;
         else if(q5>4 | | q5==0)
             printf("WRONG OPTION CHOICE !!\n");
             goto port5;
```

```
e = time('\0');
    differ = e-s;
    if(differ<=10)
             printf("Time taken : %d seconds\n\n",
differ);
         else
         printf("YOU TAKE OVER TIME!!!\n\n");
         p5=0;
//RESULT
         marks=p1+p2+p3+p4+p5;
 charg; if
(marks==5)
             g='A';
         else if (marks==4)
             g='B';
         else if (marks==3)
```

```
g='C';
       }
       else if (marks==2)
           g='D';
       else if (marks==1)
       g='E'; }
   else
           g='F';
       printf("\n-----
\n YOUR RESULT : %s\n-----
----\n",name);
       printf("MARKS OBTAIN: %d \nMARKS TOTAL:
5\n",marks);
            printf("YOUR
GRADES: %c\n",g);
                      step:
char k;
       printf("\nDO YOU WANT FOR ANOTHER
RESPONSE (Y/N): ");
scanf(" %c",&k); if
(k=='Y' | | k=='y')
           goto start;
```

```
else if(k=='N' | | k=='n')
      break;
      else
      printf("\nINVALID CHOICE! YOU CHOICE
WRONG\n");
      goto step;
   else if(a=='N' || a=='n')
break; }
   else
      printf("\nINVALID CHOICE! YOU
CHOICE WRONG\n");
                goto start;
QUIZ PORTAL*********\n
----BY ABHAY VERMA-----\n\n"); return
0; }
```

OUTPUT-

```
WELCOME IN ONLINE QUIZ PORTAL
ENTER YOUR NAME: ABHAY
ENTER YOUR BRANCH: CS
DO YOU WANT TO START THE QUIZ (Y/N) : Y
NOTE: PER QUESTION 10 SECONDS
CORRECT ANSWER = 1 MARKS
WRONG ANSWER = 0 MARKS
NOTE: ALL QUESTIONS ARE MENDATORY
Q1.Which of the following is not a valid data type in C?
1) FLOAT
2) INT
3) DOUBLE
4) TRIPLE
CHOICE ANY ONE :4
Time taken : 8 seconds
Q2.Which Keyword is used to exit a loop prematurely?
1) Break
2) Exit
3) Stop
4) Last
CHOICE ANY ONE :1
Time taken: 3 seconds
Q3.Which of the following is a valid way to comment out a single line in C?
i) //
2) /* */
3) -
4) #
CHOICE ANY ONE :1
Time taken: 3 seconds
Q4.Which library should be included for handling strings in C?
1) math.h
2) string.h

    stdio.h
    stdlib.h

CHOICE ANY ONE :2
YOU TAKE OVER TIME!!!
Q5.Which of the Loop that executes at least once?
i) While
2) For
3) Do-while
4) Switch
CHOICE ANY ONE :5
WRONG OPTION CHOICE !!
CHOICE ANY ONE :3
Time taken : 6 seconds
 YOUR RESULT : ABHAY
MARKS OBTAIN:
MARKS TOTAL :
YOUR GRADES :
               B
DO YOU WANT FOR ANOTHER RESPONSE (Y/N) : N
BY ABHAY VERMA-
```

```
Q27. ONLINE VOTING PORTAL
//
    NAME- ABHAY VERMA
//
    SECTION -AU-1
//
                                             BTECH
CS23
#include<stdio.h>
#include <conio.h>
#include <string.h> int
main()
{
    int
ch,c,v,age,p1=0,p2=0,p3=0,p4=0,p5=0,p6=0,p7=0,p8=0;
    char name[100];
char gender;
    printf("***********WELCOME IN VOTING
ONLINE SYSTEM BY ABHAY
VERMA**********\n\n"):
    while (1)
start:
         printf("1->Give Your Vote. \n2->Check Winner
```

```
Party. n3-> Exit. n');
   printf("Enter Your Choice: ");
   scanf("%d",&ch); if (ch==1)
                printf("\n-----
  -----\n");
          printf("**********Voter Personal
Details********\n");
          printf("-----
-----\n");
          printf("Enter Your gender (M/F) :
");
          scanf(" %c",&gender);
printf("Enter your name: "); scanf("%s",
name);
          printf("Enter Your Age: ");
scanf("%d",&age);
          if (age>=18)
             if(gender=='M' | | gender=='m')
              printf("\n-----
  -----\n'');
             printf("Your Details are filled
successfully....\n");
              printf("-----
```

```
-----\n");
              printf("Your Name : Mr. %s\n",name);
              printf("Your age : %d\n",age);
              printf("You are eligible to vote...");
              else if(gender=='F' || gender=='f')
              printf("\n-----
    -----\n");
              printf("Your Details are filled
successfully....\n");
              printf("-----
     -----\n");
              printf("Your Name: Ms.
%s\n",name);
              printf("Your age : %d\n",age);
              printf("You are eligible to vote...");
              else
              printf("\n-----
             ----\n");
              printf("INVALID CHOICE, You choice
wrong...\n");
```

```
printf("-----
      -----\n");
             goto start;
          else
              printf("\n-----
   -----\n");
              printf("Sorry! %s, you are not eligible
to vote.\n\n",name);
              printf("-----
 -----\n");
             goto start;
          printf("\n\n\n-----
-----\n");
 printf("There are 6 political parties given below vote
any one\n");
          printf(" 1-> BHARATIYA JANATA PARTY
(B.J.P) \n 2-> ALL INDIA TRINAMOOL CONGRESS
(A.I.T.C) \n 3-> INDIAN NATIONAL CONGRESS (I.N.C)
\n");
           printf(" 4-> AAM AADMI PARTY (A.A.P) \n
5-> BAHUJAN SAMAJ PARTY (B.S.P) \n 6-> SAMAJWADI
PARTY (S.P) \n");
```

```
printf("-----
    ----\n");
         printf("ENTER YOUR VOTE: ");
scanf("%d",&v);
          printf("\n-----
         ----\n");
         if (v==1)
             p1++;
         else if (v==2)
             p2++;
         else if (v==3)
             p3++;
         else if (v==4)
             p4++;
         else if (v==5)
             p5++;
```

```
else if (v==6)
              p6++;
           else
          printf("INVALID CHOICE ,You choice
wrong...\n-----
 ----\n");
          goto start;
          printf("You vote sucessfully...\n"); printf("--
 -----\n");
       else if(ch==2)
           printf("-----
 -----\n'');
          printf("The WINNER PARTY: ");
if (p1>p2 && p1>p3 && p1>p4 && p1>p5
&& p1>p6)
          printf(" BHARATIYA JANATA PARTY
```

```
(B.J.P)");
         else if (p2>p1 && p2>p3 && p2>p4 && p2>p5
&& p2>p6)
                {
                printf(" ALL INDIA TRINAMOOL
CONGRESS (A.I.T.C)");
         else if (p3>p1 && p3>p2 && p3>p4 && p3>p5
&& p3>p6)
                printf("T INDIAN NATIONAL
CONGRESS (I.N.C)");
   else if (p4>p1 && p4>p2 && p4>p3 && p4>p5 &&
p4>p6)
                {
                  printf(" AAM AADMI PARTY (A.A.P)");
         else if (p5>p1 && p5>p2 && p5>p3 && p5>p4
&& p6>p6)
                printf(" BAHUJAN SAMAJ PARTY
```

```
(B.S.P)");
      else if (p6>p1 && p6>p2 && p6>p3 && p6>p4
&& p6>p5)
           printf(" SAMAJWADI PARTY (S.P)");
     else
           printf("OOPS! THERE ARE TWO OR
MORE POLITICAL PARTIES HAVING EQUAL VOTE !!!");
         printf("\n-----
  -----\n");
     printf("\n");
     else if (ch==3)
         printf("\n-----
         FOR USING THIS VOTING
SYSTEM***********\n");
        printf("-----BY
ABHAY VERMA-----\n");
        break;
```

OUTPUT-

```
*************WELCOME IN VOTING ONLINE SYSTEM BY ABHAY VERMA************
1->Give Your Vote.
2->Check Winner Party.
3-> Exit.
Enter Your Choice: 1
*********Voter Personal Details******
Enter Your gender (M/F) : M
Enter your name: ABHAY
Enter Your Age: 18
Your Details are filled successfully....
Your Name : Mr. ABHAY
Your age : 18
You are eligible to vote...
There are 6 political parties given below vote any one 1-> BHARATIYA JANATA PARTY (B.J.P)
 2-> ALL INDIA TRINAMOOL CONGRESS (A.I.T.C)
 3-> INDIAN NATIONAL CONGRESS (I.N.C)
 4-> AAM AADMI PARTY (A.A.P)
 5-> BAHUJAN SAMAJ PARTY (B.S.P)
 6-> SAMAJWADI PARTY (S.P)
ENTER YOUR VOTE: 1
You vote sucessfully...
1->Give Your Vote.
2->Check Winner Party.
3-> Exit.
Enter Your Choice: 1
*********Voter Personal Details******
Enter Your gender (M/F) : F
Enter your name: ASHIKA
Enter Your Age: 45
Your Details are filled successfully....
```

```
Your Name : Ms. ASHIKA
Your age : 45
You are eligible to vote...
There are 6 political parties given below vote any one
 1-> BHARATIYA JANATA PARTY (B.J.P)
 2-> ALL INDIA TRINAMOOL CONGRESS (A.I.T.C)
 3-> INDIAN NATIONAL CONGRESS (I.N.C)
4-> AAM AADMI PARTY (A.A.P)
 5-> BAHUJAN SAMAJ PARTY (B.S.P)
 6-> SAMAJWADI PARTY (S.P)
ENTER YOUR VOTE: 1
You vote sucessfully...
1->Give Your Vote.
2->Check Winner Party.
3-> Exit.
Enter Your Choice: 1
**********Voter Personal Details*******
Enter Your gender (M/F) : G
Enter your name: SUBH
Enter Your Age: 44
INVALID CHOICE , You choice wrong...
1->Give Your Vote.
2->Check Winner Party.
3-> Exit.
Enter Your Choice: 1
*********Voter Personal Details******
Enter Your gender (M/F) : M
Enter your name: GAURv
Enter Your Age: 23
Your Details are filled successfully....
Your Name : Mr. GAURv
Your age : 23
```

44

```
Your Details are filled successfully....
Your Name : Mr. GAURv
Your age : 23
You are eligible to vote...
There are 6 political parties given below vote any one
 1-> BHARATIYA JANATA PARTY (B.J.P)
 2-> ALL INDIA TRINAMOOL CONGRESS (A.I.T.C)
 3-> INDIAN NATIONAL CONGRESS (I.N.C)
 4-> AAM AADMI PARTY (A.A.P)
 5-> BAHUJAN SAMAJ PARTY (B.S.P)
 6-> SAMAJWADI PARTY (S.P)
ENTER YOUR VOTE: 3
You vote sucessfully...
1->Give Your Vote.
2->Check Winner Party.
3-> Exit.
Enter Your Choice: 2
The WINNER PARTY: BHARATIYA JANATA PARTY (B.J.P)
1->Give Your Vote.
2->Check Winner Party.
3-> Exit.
Enter Your Choice: 3
      ----BY ABHAY VERMA-
Process exited after 77.77 seconds with return value 0
Press any key to continue . . .
```

Q28. WAP TO PRINT THE DETAILS OF TEMPERATURE?

```
#include <stdio.h>
int main() {    int
temp;
    printf("Enter a current Temperature: ");
scanf("%d", &temp);
```

```
if (temp<=0)
      printf("FREEZING WEATHER");
else if(temp>0 && temp<10)
printf("VERY COLD");
if(temp>=10 && temp<20)
      printf("ITS COLD");
  else if(temp>=20 && temp<30)
printf("NORMAL TEMPERATURE");
  else if(temp>=30 && temp<40)
printf("ITS WARM");
                   else
if(temp>=40 && temp<45)
printf("TOO HOT"); else
if(temp>=45)
                printf("VERY
HOT");
  else
      printf("Error: Invalid TEMPERATURE\n");
  return 0;
```

Enter a current Temperature: 2
VERY COLD

Enter a current Temperature: 23
NORMAL TEMPERATURE

Q29.WAP TO COUNT THE NUMBER OF CONSONANTS AND VOWELS IN STRING?

```
#include <stdio.h>
#include <string.h>
#include <math.h> int
main()
{
    printf("Enter a WORD : ");
    char a[100];
gets(a); int
count=0,y=0;
                  int
x=strlen(a);
    for(int i=0;i<x;i++)
         int vow =a[i];
         switch (vow)
     case 'a':
case 'e':
             case 'i':
case 'o':
                 Enter a WORD : Programming
case 'u':
case 'A':
                 No. OF VOWELS
case 'E':
                 No. OF CONSONENTS:
case 'l':
case 'O':
case 'U':
         count++;
```

Q30.WAP TO PRINT AREA OF SQUARE & VOLUME OF CUBE (with NO RETURN TYPE)

```
//SUM FUNCTION
#include<stdio.h>
void area(); void
vol();
void area()
{
    int x,a;
    printf("Enter the side of SQUARE: ");
    scanf("%d",&x);
a=x*x;
    printf("AREA OF SQUARE: %d \n",a);
}
```

```
void vol()
{
    int x,v;
    printf("Enter the side of CUBE: ");
    scanf("%d",&x);
    v=x*x*x;
    printf("AREA OF CUBE: %d \n",v);
}
int main()
{
    area();
    vol();

Q31.WAP TO PRINT ADD AND SUB USING FUNCTION
```

Q31.WAP TO PRINT ADD AND SUB USING FUNCTION BY PASSING THE ARGUEMENT AND RETURN TYPE:

```
#include<stdio.h>
int add(int a, int b)
{
    return a+b;
}

int main()
{
    int n,m;
```

```
printf("Enter the numbers N : ");
scanf("%d",&n);
    printf("Enter the numbers M : ");
scanf("%d",&m); int x=add(n,m);
    printf("SUM: %d",x);
// power function
Q32.SWAP THE POINTERS?
#include<stdio.h> int
                         Enter the numbers A and B : 23 33
main()
                         BEFORE SWAPING (A=23) and (B=33)
                         AFTER SWAPING (A=33) and (B=23)
    int a,b;
    printf("Enter the numbers A and B : ");
    scanf("%d%d",&a,&b);
int *p=&a ,*q=&b;
                      int
temp;
    printf("BEFORE SWAPING (A=%d) and (B=%d)
\n",*p,*q);
    temp=*p;
    *p=*q;
    *q=temp;
```

```
printf("AFTER SWAPING (A=%d) and
(B=%d)",*p,*q);
Q33.WAP TO MAKE A USER ENTERED MATRIX?
#include <stdio.h>
int main() {
int rows, cols;
  printf("Enter the number of rows: ");
scanf("%d", &rows);
  printf("Enter the number of columns: ");
scanf("%d", &cols);
matrix[rows][cols];
  printf("Enter the values for the matrix:\n");
  for (int i = 0; i < rows; ++i) {
for (int j = 0; j < cols; ++j) {
      printf("Enter element at position (%d, %d): ", i +
1, j + 1);
      scanf("%d", &matrix[i][j]);
  printf("Entered Matrix:\n");
for (int i = 0; i < rows; ++i) {
for (int j = 0; j < cols; ++j) {
      printf("%d\t", matrix[i][j]);
```

```
printf("\n\n");
  return 0;
OUTPUT-
```

```
Enter the number of rows: 3
Enter the number of columns: 3
Enter the values for the matrix:
Enter element at position (1, 1):
Enter element at position (1, 2):
Enter element at position (1, 3):
Enter element at position (2, 1): 0
Enter element at position (2, 2): 1
Enter element at position (2, 3): 0
Enter element at position (3, 1): 2
Enter element at position (3, 2): 0
Enter element at position (3, 3): 1
Entered Matrix:
1
        0
                2
0
        1
                0
2
        0
                1
```

O33.WAP TO INSERT VALUE IN ARRAY AND ALSO DELETE THE ELEMENT FROM ANY INDEX?

```
#include <stdio.h>
int main()
     int n;
     printf("enter the size:
    scanf("%d",&n); int
");
a[n];
     for (int i=0;i < n; i++)
         printf("Enter the value at index %d: ",i);
         scanf("%d",&a[i]);
     for (int i=0;i<n;i++)
         printf("%d ",a[i]);
     // delition
     int pos;
     printf("\nEnter the deletion index: ");
     scanf("%d",&pos);
     for (int i=pos; i < n; i++)
         a[i]=a[i+1];
    for (int i=0; i < n-1; i++)
```

OUTPUT-

```
enter the size: 5
Enter the value at index 0: 10
Enter the value at index 1: 120
Enter the value at index 2: 30
Enter the value at index 3: 140
Enter the value at index 4: 50
10 120 30 140 50
Enter the deletion index: 2
10 120 140 50
```

