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PPS-assignment

Q1. enter 1D-array.

```
#include<stdio.h>

int main()
{
    int arr[20],i,N;
    printf("how many integers you want to enter : ");
    scanf("%d",&N);
    printf("\nEnter Array : ");
    for(i=0;i<N;i++)
    {
        scanf("%d",&arr[i]);
    }
    printf("\n Your Array is : ");
    for(i=0;i<N;i++)
    {
        printf("%d\t",arr[i]);
    }
    return 0;
}
```

Q2. enter 2D-array.

```
#include<stdio.h>

int main()
{
    int arr[10][10],r,c,i,j;
    printf("How many rows and column you want to enter : ");
    scanf("%d %d",&r,&c);
    printf("\nEnter The array : ");
    for(i=0;i<r;i++)
    {
        for(j=0;j<c;j++)
        {
            scanf("%d",&arr[i][j]);
        }
    }
    printf("\nYour Array is : \n");
    for(i=0;i<r;i++)
    {
        for(j=0;j<c;j++)
        {
            printf("%d\t",arr[i][j]);
        }
        puts("\n");
    }
    return 0;
}
```

Q3. add two matrix.

```
#include<stdio.h>
int main()
{
    int m,n,c,d,f[10][10],s[10][10],sum[10][10];
    printf("enter the number of rows and coloumns of matrix \n");
    scanf("%d%d",&m,&n);
    printf("enter the element of first matrix \n");
    for(c=0;c<m;c++)
    { for(d=0;d<n;d++)
        {
            scanf("%d",&f[c][d]);
        }
    }
    printf("enter the elements of second matrix \n");
    for(c=0;c<m;c++)
    { for(d=0;d<n;d++)
        {
            scanf("%d",&s[c][d]);
        }
    }
    printf("sum of entered mateices: \n");
    for(c=0;c<m;c++)
    {
        for(d=0;d<n;d++)
        {
            sum[c][d]=f[c][d]+s[c][d];
            printf("%d \t",sum[c][d]);
        }
        printf("\n");
    }
    return 0;
}
```

Q4. print address.

```
#include<stdio.h>

int main()
{
    puts("Sam Rajput");
    puts("House N0. 43, Moga Street");
    puts("Jalandhar, Punjab");
    puts("144602");
    return 0;
}
```

Q5. enter array using pointers.

```
int main()
{
    int arr[10];
    int *p;
    int i;
    p=&arr[0];
    printf("enter array elements \n");
    for(i=0;i<10;i++)
    { printf("enter elements %02d:\n",i+1);
      scanf("%d",p+i);
    }
    printf("enetered array elements are:\n");
    printf("\n address \t value \n");
    for(i=0;i<10;i++)
    {
        printf("%08x \t %03d \n",(p+i),*(p+i));
    }
    return 0;
}
```

Q6. print area of circle.

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

int main()
{ float area,radius ;
  printf("Enter the radius of circle\n");

  scanf("%f",&radius);

  /* M_PI (pi) is a constant in math.h header file */

  area = M_PI*radius*radius;

  printf("Area of circle = %.2f\n", area);

  return 0;
}
```

Q7. binary search.

```
#include<stdio.h>

int main()
{
    int i,first,last,mid,N,arr[20],ele;
```

```

printf("\nHow many elements you want to enter(in ascending order) : ");
scanf("%d",&N);
printf("\nEnter Elements : ");
for(i=0;i<N;i++)
{
    scanf("%d",&arr[i]);
}
printf("\n Enter element you want to search : ");
scanf("%d",&ele);
int flag=0;
first=0;
last=N-1;
while(last>=first)
{
    mid=(first + last) / 2;
    if(arr[mid]==ele)
    {
        printf("\n Element is found at position %d",mid+1);
        flag=1;
        break;
    }
    else if(arr[mid]>ele)
    {
        last=mid-1;
        break;
    }
    else{
        first=mid+1;
    }
}
if(flag==0)
{
    printf("\nElement Not found!\n");
}
return 0;
}

```

Q9. bubble sorting.

```

#include <stdio.h>

int main()
{
    int array[100], n, c, d, swap;

    printf("Enter number of elements\n");
    scanf("%d", &n);

    printf("Enter %d integers\n", n);

    for (c = 0; c < n; c++)
        scanf("%d", &array[c]);

    for (c = 0 ; c < n - 1; c++)
    {
        for (d = 0 ; d < n - c - 1; d++)
        {
            if (array[d] > array[d+1]) /* For decreasing order use < */
            {
                swap      = array[d];
                array[d]   = array[d+1];
                array[d+1] = swap;
            }
        }
    }
}

```

```
printf("Sorted list in ascending order:\n");

for (c = 0; c < n; c++)
    printf("%d\n", array[c]);

return 0;
}
```

Q10. calculator.

```
include<stdio.h>

int main()
{
    int num1,num2,result,choice;
    printf("Enter first Number : ");
    scanf("%d",&num1);
    printf("\nEnter second Number : ");
    scanf("%d",&num2);
    puts("Select Operation :");
    puts("1.Add \n2. Subtract\n3. Divide\n4. Multiply");
    puts("Enter Choice : ");
    scanf("%d",&choice);
    switch(choice)
    {
        case 1 : result=num1+num2;
        printf("Result : %d\n",result);
        break;
        case 2 : result=num1-num2;
        printf("Result : %d\n",result);
        break;
        case 3 : result=num1/num2;
        printf("Result : %d\n",result);
        break;
        case 4 : result=num1*num2;
        printf("Result : %d\n",result);
        break;
    }
    return 0;
}
```

Q11. program using call by value.

```
include<stdio.h>
void swap(int x,int y);
int main()
{
    int a=100,b=200;
    printf("before swaping value of a and b are %d and %d respectively \n",a,b);
    swap(a,b);
    printf("after swaping value of a and b are %d and %d respectively \n",a,b);
    return 0;
}
void swap(int x,int y)
{
    int temp;
    temp=x;
    x=y;
    y=temp;
    return ;
}
```

Q12. program using call by reference.

```
#include<stdio.h>
void swap(int*x,int*y);
int main()
{
    int a=100,b=200;
    printf("before swaping a and b are %d and %d respectively",a,b);
    swap(&a,&b);
    printf("after swaping a and b are %d and %d respectively",a,b);
    return 0;
}
void swap(int *x,int*y)
{
    int temp;
    temp=*x;
    *x=*y;
    *y=temp;
    return;
}
```

Q13. even odd .

```
#include<stdio.h>

int main()
{
    int num;
    printf("\n Enter an Integer : ");
    scanf("%d",&num);
    if(num%2==0)
    {
        printf("\n The integer %d is Even.",num);
    }
    else
    {
        printf("\n The integer %d is Odd.",num);
    }
    return 0;
}
```

Q14. factorial.

```
#include<stdio.h>
int main()
{
    int c,n,fact=1;
    printf("enter a no. to calculate its factorial \n");
    scanf("%d",&n);
    for(c=1;c<=n;c++)
    {
        fact=fact*c;
    }
    printf("factorial of %d =%d\n",n,fact);
    return 0;
}
```

Q15. fibonacci series.

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

```
int n,f=0,s=1,next,c;
printf("enter the no of terms \n");
scanf("%d",&n);
printf("first %d term of fibonacci series are: \n",n);
for(c=0;c<n;c++)
{
    if(c<=1)
        next=c;
    else
    {
        next=f+s;
        f=s;
        s=next;
    }
    printf("%d \n",next);
}
return 0;
}
```

Q16. greatest no.

```
#include <stdio.h>

int main()
{
    int array[100], maximum, size, c, location = 1;

    printf("Enter the number of elements in array\n");
    scanf("%d", &size);

    printf("Enter %d integers\n", size);

    for (c = 0; c < size; c++)
        scanf("%d", &array[c]);

    maximum = array[0];

    for (c = 1; c < size; c++)
    {
        if (array[c] > maximum)
        {
            maximum = array[c];
            location = c+1;
        }
    }
    printf("Maximum element is present at location %d and it's value is %d.\n", location, maximum);
    return 0;
}
```

Q17. hello program.

```
#include<stdio.h>

int main()
{
    puts("Hello Budding Engineers.");
    return 0;
}
```

Q18. leap year program.

```
#include<stdio.h>
int main()
{
    int year;
    printf("enter year");
    scanf("%d",&year);
    if (((year%4==0)&&(year%100!=0))||(year%400==0))
        printf("%d is a leap year",year);
    else
        printf("%d is not a leap year",year);
    return 0;
}
```

Q19. linear search.

```
#include<stdio.h>
int main()
{
    int arr[10],ele,i,flag=0;
    printf("enter 10 integers:");
    for( i=0;i<10;i++)
    {
        scanf("%d",&arr[i]);
    }
    printf("\n enter element you want to search:");
    scanf("%d",&ele);
    for(int i=0;i<10;i++)
    {
        if(arr[i]==ele)
        {
            printf("\n element is found :)index:%d\t position:%d\n",i,i+1);
            flag=1;
            break;}
    }
    if(flag==1)
    {
        printf("element is not found ");
    }
    return 0;
}
```

Q20. multiply matrix.

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

int main()
{
    int m, n, p, q, c, d, k, sum = 0;
    int first[10][10], second[10][10], multiply[10][10];

    printf("Enter number of rows and columns of first matrix\n");
    scanf("%d%d", &m, &n);
    printf("Enter elements of first matrix\n");

    for (c = 0; c < m; c++)
        for (d = 0; d < n; d++)
            scanf("%d", &first[c][d]);

    printf("Enter number of rows and columns of second matrix\n");
    scanf("%d%d", &p, &q);

    if (n != p)
        printf("The matrices can't be multiplied with each other.\n");
```



```

else
{
    printf("Enter elements of second matrix\n");

    for (c = 0; c < p; c++)
        for (d = 0; d < q; d++)
            scanf("%d", &second[c][d]);

    for (c = 0; c < m; c++) {
        for (d = 0; d < q; d++) {
            for (k = 0; k < p; k++) {
                sum = sum + first[c][k]*second[k][d];
            }
            multiply[c][d] = sum;
            sum = 0;
        }
    }

    printf("Product of the matrices:\n");

    for (c = 0; c < m; c++) {
        for (d = 0; d < q; d++)
            printf("%d\t", multiply[c][d]);

        printf("\n");
    }
}

return 0;
}

```

Q21. pattern 1.

```

#include<stdio.h>

int main()
{
    int i,j,row;
    printf("Enter number of rows:");
    scanf("%d",&row);
    for(i=1;i<=row;++i)
    {
        for(j=1;j<=i;++j)
        {
            printf("* ");
        }
        printf("\n");
    }
    return 0;
}

```

Q22. pattern 2.

```

#include<stdio.h>

int main()
{
    int i,j,row;
    printf("Enter the no. of rows:");
    scanf("%d",&row);
    for(i=row;i>=1;--i)
    {
        for(j=1;j<=i;++j)
        {

```

```
        printf(" *");
    }
    printf("\n");
}
return 0;
}
```

Q23. pattern 3.

```
#include<stdio.h>

int main()
{
    int i,row,space,k=0;
    printf("enter no. of rows:");
    scanf("%d",&row);
    for(i=1;i<=row;++i,k=0)
    {
        for(space=1;space<=row-i;++space)
        {
            printf("  ");
        }

        while(k!=2*i-1)
        {
            printf("*  ");
            ++k;
        }
        printf("\n");
    }
    return 0;
}
```

Q24. perimeter of circle.

```
#include<stdio.h>

int main()
{
    float radius,peri;
    printf("Enter The Radius Of The Circle : ");
    scanf("%f",&radius);
    peri=2*3.14*radius;
    printf("\nPerimeter Of The Circle : %.2f",peri);
    return 0;
}
```

Q25. pallindrom of a number.

```
#include<stdio.h>
int main()
{
    int temp,number,sum ,digit;
    printf("enter a no.");
    scanf("%d",&number);
    temp=number;
    while(temp>0)
    {
        digit=temp%10;
        temp/=10;
        sum=sum*10+digit;
    }
}
```

```
if(number==sum)
    printf("entered no. is palindrom");
else
    printf("entered no. is palindorm");
return 0;
}
```

Q26. pointer.

```
#include<stdio.h>
int main()
{
    int n;
    int *p;
    p=&n;
    n=100;
    printf("using variable n:\n");
    printf("value of n:%d \n addres of n:%d\n",n,&n);
    printf("using pointer value:p\n");
    printf("value of n:%d\n addres of n:%d\n",*p,p);
    return 0;
}
```

Q27. reverse of number.

```
#include<stdio.h>

int main()
{
    int num,reverse=0,digit;
    printf("Enter an Integer(min. 2 digits) : ");
    scanf("%d",&num);
    int temp=num;
    while(temp>0)
    {
        digit=temp%10;
        reverse=(reverse*10)+digit;
        temp/=10;
    }
    printf("\n Reverse of given Integer %d is %d.",num,reverse);
    return 0;
}
```

Q29. factorial using recursion.

```
#include<stdio.h>
int factorial(int);
int main()
{
    int i=5;
    printf("factorial is %d:",factorial(i));
    return 0;
}
int factorial(int i)
{
    if(i==1)
    {
        return 1;
    }
    return i * factorial(i-1);
}
```

Q30. square of a number.

```
#include<stdio.h>

int main()
{
    int num,square;
    printf("Enter a number : ");
    scanf("%d",&num);
    square=num*num;
    printf("\nThe sqaure of %d is %d",num,square);
    return 0;
}
```

Q31. structure.

```
#include<stdio.h>

struct employee{
    int empid;
    char name[50], empdept[50];
    float salary;
};

int main()
{
    struct employee E;
    printf("\nEnter Employee Id : ");
    scanf("%d",&E.empid);
    printf("Ent Employee Name : ");
    scanf("\n%[^\\n]*c",&E.name);
    printf("Enter Employee Department : ");
    scanf("\n%[^\\n]*c",&E.empdept);
    printf("Enter Employee salary : ");
    scanf("%f",&E.salary);
    printf("\n\nEmployee Id : %d\nEmployee Name : %s\nEmployee Department : %s\nEmployee Salary : %f\n",
        E.empid,E.name,E.empdept,E.salary);
    return 0;
}
```

Q32. subtract matrix.

```
#include<stdio.h>
int main()
{
    int m,w,n,c,d,f[10][10],s[10][10],sub[10][10];
    printf("enter no. of rows and coloumns");
    scanf("%d%d",&m,&n);
    printf("enter elements of first matrix");
    for(c=0;c<m;c++)
    {
        for(d=0;d<n;d++)
        {
            scanf("%d",&f[c][d]);
        }
    }
    printf("enter elements of second matrix");
    for(c=0;c<m;c++)
    {
        for(d=0;d<n;d++)
        {
            scanf("%d",&s[c][d]);
        }
    }
}
```

```

printf("to perform subtraction of first matrix form second matrix enter 1,otherwise subtraction of second matrix
scanf("%d",&w);

printf("result after subtraction:");
if(w==1)
{for(c=0;c<m;c++)
{
    for(d=0;d<n;d++)
    {
        sub[c][d]=f[c][d]-s[c][d];
    }
}
}
else
{ for(c=0;c<m;c++)
{
    for(d=0;d<n;d++)
    {
        sub[c][d]=s[c][d]-f[c][d];
        printf("%d\t",sub[c][d]);
    }
    printf("\n");
}
}
return 0;
}

```

Q33.sum of two numbers.

```

#include<stdio.h>

int main()
{
    int num1,num2,sum;
    printf("Enter the first number : ");
    scanf("%d",&num1);
    printf("\nEnter the second number : ");
    scanf("%d",&num2);
    sum=num1+num2;
    printf("\nSum of the two number is %d\n",sum);
    return 0;
}

```

Q34.sum of pointers.

```

#include <stdio.h>

int main()
{
    int first, second, *p, *q, sum;

    printf("Enter two integers to add\n");
    scanf("%d%d", &first, &second);

    p = &first;
    q = &second;

    sum = *p + *q;

    printf("Sum of the numbers = %d\n", sum);
}

```

```
    return 0;
}
```

Q35. swaping program.

```
#include <stdio.h>
int main()
{
    int x, y;
    printf("Enter Two Integers : ");
    scanf("%d %d",&x,&y);

    x = x + y;
    y = x - y;
    x = x - y;

    printf("After Swapping: x = %d, y = %d", x, y);

    return 0;
}
```

Q36. table 5.

```
#include<stdio.h>

void main()
{
    int a[10][10],b[10][10];
    int n,m,i,j;
    printf("enter size of matrix as m and n");
    scanf("%d%d",&m,&n);
    printf("\n enter elements of matrix a row wise \n ",m,n);
    for(i=0;i<m;i++)
    { for(j=0;j<n;j++)
      {
          scanf("%d",&a[i][j]);
      }
    }

    for(i=0;i<m;i++)
    { for(j=0;j<n;j++)
      {
          b[j][i]=a[i][j];
      }
    }
    printf("/n transpose is/n/n");

    for(i=0;i<m;i++)
    { for(j=0;j<n;j++)
      {
          printf("%d",b[i][j]);
      }
      printf("\n");
    }
}

return 0;
```

Q37. temperature convert.

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

```
int main()
{
    float C,F;
    int choice;
    puts("what do you want to do ? ");
    puts("1. Convert Celsius to Fahrenheit.");
    puts("2. Convert Fahrenheit to Celsius.");
    puts("Enter your choice : ");
    scanf("%d",&choice);
    switch(choice)
    {
        case 1 : printf("Enter Celsius : ");
                 scanf("%f",&C);
                 F=(C*1.8)+32;
                 printf("\n Fahrenheit : %.3f",F);
                 break;
        case 2 : printf("Enter Fahrenheit : ");
                 scanf("%f",&F);
                 C=(F-32)/1.8;
                 printf("\n   : %.3f",C);
                 break;
    }
    return 0;
}
```

Q38. week days.

```
#include<stdio.h>

int main()
{
    int week;
    printf("\nEnter Week Number : ");
    scanf("%d",&week);
    switch(week){
        case 1 : printf("\nMonday.");
                 break;
        case 2 : printf("\nTuesday");
                 break;
        case 3 : printf("\nWednesday");
                 break;
        case 4 : printf("\nThursday");
                 break;
        case 5 : printf("\nFriday");
                 break;
        case 6 : printf("\nSaturday");
                 break;
        case 7 : printf("\nSunday");
                 break;
        default : printf("\nYou have entered wrong week number!");
                 break;
    }
    return 0;
}
```

Q39.prime number.

```
#include<stdio.h>

int main()
{
    int i,n,flag=0;
    printf("enter a positive integer:");
```

```

scanf("%d",&n);
for(i=2;i<=n/2;++i)
{
    if(n%i==0)
    {
        flag=1;
        break;
    }
}
if (n==1)
{
    printf(" 1 is neither a prime nor a composite number.");
}
else
{
    if (flag==0)
        printf("%d is a prime number.",n);
    else
        printf("%d is not a prime no.",n);
}
return 0;
}

```

Q40. quadratic equation.

```

#include <stdio.h>
#include <math.h>
int main()
{
    double a, b, c, discriminant, root1, root2, realPart, imaginaryPart;
    printf("Enter coefficients a, b and c: ");
    scanf("%lf %lf %lf",&a, &b, &c);
    discriminant = b*b-4*a*c;
    // condition for real and different roots
    if (discriminant > 0)
    {
        // sqrt() function returns square root
        root1 = (-b+sqrt(discriminant))/(2*a);
        root2 = (-b-sqrt(discriminant))/(2*a);
        printf("root1 = %.2lf and root2 = %.2lf",root1 , root2);
    }
    //condition for real and equal roots
    else if (discriminant == 0)
    {
        root1 = root2 = -b/(2*a);
        printf("root1 = root2 = %.2lf;", root1);
    }
    // if roots are not real
    else
    {
        realPart = -b/(2*a);
        imaginaryPart = sqrt(-discriminant)/(2*a);
        printf("root1 = %.2lf+%.2lfi and root2 = %.2f-%.2fi", realPart, imaginaryPart, realPart, imaginaryPart);
    }
    return 0;
}

```

Q41. fizz buzz.

```

#include<stdio.h>
int main()
{
    int n;
    for(n=1;n<=30;n++)

```



```
{  
    if(n%3==0 && n%5==0)  
        printf("Fizzbuzz\n");  
    else if(n%3==0)  
        printf("Fizz\n");  
    else if(n%5==0)  
        printf(" Buzz\n");  
    else  
        printf("\n %d \n",n);  
}  
return 0;  
}
```