

Q1 A)

```
#include <stdio.h>

int main() {
    float r,l,b;
    scanf("%f\n",&r);
    scanf("%f\n",&l);
    scanf("%f\n",&b);
    float Circlearea=3.14*r*r;
    printf("area of circle is %.3f\n",Circlearea);
    float RectangleArea=l*b;
    printf("Area of rectangle is %f",RectangleArea);

    return 0;
}
```

Q2 A)

```
#include <stdio.h>

int main() {
    double bsalary,HRA;
    double DA;
    double pf=900,ma=580;
    char metrocity;
    printf("Enter Employee Basic salary\n");
    scanf("%lf",&bsalary);
    printf("Enter if person uses metroCity if yes enter y else enter n -->\n");
    scanf("%c",&metrocity);
    HRA=0.15*bsalary;
    if(metrocity=='y')
    {
        DA=0.4*bsalary;
```

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    }
    else if(metrocity=='n')
    {
        DA=0.3*bsalary;
    }
    double GrossSalary=(bsalary+DA+HRA+pf)-ma;
    printf("The HRA is %lf\n",HRA);
    printf("Th DA is %lf\n",DA);
    printf("The Gross salary of Employee is %lf",GrossSalary);
    return 0;
}

```

Q3 A)

```

#include <stdio.h>

int main(){
    int num=10;
    char ch='a';
    float pi=3.14;
    double z=3.133457;
    int arr[]={1,3,4,5};
    char string[]="charan";

    printf("size of num is %lu \n",sizeof(num));
    printf("sizeof ch is %lu\n",sizeof(ch));
    printf("sizeof pi is %lu\n",sizeof(pi));
    printf("sizeof z is %u\n",sizeof(z));
    printf("sizeof arr is %u\n",sizeof(arr));
    printf("sizeof string is %u\n",sizeof(string));
    return 0;
}

```

Q4 A)

```

#include <stdio.h>

```

```

int main()
{
    int arr[]={1,23,4,56,24};
    int temp=arr[0];
    int length=sizeof(arr)/sizeof(arr[0]);
    for(int i=0;i<length;i++)
    {
        if(temp<arr[i+1])
        {
            temp=arr[i+1];
        }
    }
    printf("%d",temp);

    return 0;
}

```

Q5 A)

```

#include <stdio.h>
int main()
{
    int arr[10];
    for(int i=0;i<10;i++)
    {
        printf("enter the 1o numbers \n");
        scanf("%d",&arr[i]);
    }
    int sum=0;
    for(int i=0;i<10;i++)
    {
        sum=sum+arr[i];
    }
}

```

```

    }

    printf("sum of numbers are %d",sum);

    return 0;
}

```

Q6 A)

```

#include <stdio.h>

int main()
{
    int a[2][3],b[2][3];
    for(int i=0;i<2;i++)
    {
        for(int j=0;j<3;j++)
        {
            printf("enter the numbers of a\n");
            scanf("%d",&a[i][j]);
        }
    }

    for(int i=0;i<2;i++)
    {
        for(int j=0;j<3;j++)
        {
            printf("enter the numbers of b \n");
            scanf("%d",&b[i][j]);
        }
    }

    int c[2][3]={0,0,0},{0,0,0};
    for(int i=0;i<2;i++)
    {

```

```
    for(int j=0;j<3;j++)  
    {  
        c[i][j]=a[i][j]+b[i][j];  
    }  
}
```

```
for(int e=0;e<2;e++)  
{  
    for(int f=0;f<3;f++)  
    {  
        printf("%d ",c[e][f]);  
    }  
    printf("\n");  
}
```

```
return 0;  
}
```