

main.c

Run

Clear

```
1 //Question 1|
2 #include <stdio.h>
3 int HRA(int a){
4     int hra=a/10;
5     return hra;
6 }
7 int DA(int a){
8     int da = a/4;
9     return da;
10 }
11 int Grosspay(int a, int b,int c){
12     int total = a+b+c;
13     return total;
14 }
15 int print(int a){
16     printf("Your Total Salary is %d",a);
17 }
18 int main()
19 {
20     int salary,hra,da,gross_pay,net_pay;
21     printf("Enter the salary\n");
22     scanf("%d", &salary);
23     hra=HRA(salary);
24     da= DA(salary);
25     gross_pay=Grosspay(salary,hra,da);
26     net_pay=salary;
27     print(gross_pay);
28     return 0;
29 }
```

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```
/tmp/bnffX2sh9p.o
Enter the salary
56000
Your Total Salary is 75600
```



Run

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```
1 //QUESTION 2
2 #include <stdio.h>
3 void print_ascii(char c)
4 {
5     printf("ASCII Value: %d",c);
6 }
7 int main()
8 {
9     char ch;
10    printf("Enter a character:\n");
11    scanf("%c",&ch);
12    print_ascii(ch);
13    return 0;
14 }
```

```
/tmp/bnffX2sh9p.o
Enter a character:
a
ASCII Value: 97
```



```
main.c
1 //Question 3
2 #include<stdio.h>
3 int check_prime(int n)
4 {
5     int i,c=0;
6     for(i=1;i<=n;i++)
7     {
8         if(n%i==0)
9             c++;
10    }
11    return((c==2)?1:0);
12 }
13 int main()
14 {
15     int N,i;
16     printf("Enter a number: ");
17     scanf("%d",&N);
18     for(i=1;i<=N;i++)
19     {
20         if(N%i==0)
21         {
22             if(check_prime(i)==1)
23                 printf("%d ",i);
24         }
25     }
26     return 0;
27 }
```



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```
/tmp/bnffX2sh9p.o
Enter a number: 60
2 3 5
```

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```
1 //Question 4
2 #include <stdio.h>
3 int main()
4 {
5     long array[100], *maximum, size, c, location = 1;
6     printf("Enter the number of elements in array\n");
7     scanf("%ld", &size);
8     printf("Enter elements into the array\n");
9     for ( c = 0 ; c < size ; c++ )
10         scanf("%ld", &array[c]);
11     maximum = array;
12     *maximum = *array;
13     for ( c = 1; c < size; c++ )
14     {
15         if (*(array+c) > *maximum)
16         {
17             *maximum = *(array+c);
18             location = c+1;
19         }
20     }
21     printf("Maximum element is %ld.\n", *maximum);
22     return 0;
23 }
```

/tmp/bnffX2sh9p.o
Enter the number of elements in array
6
Enter elements into the array
2 4 5 1 3 7
Maximum element is 7.

```
main.c
1 //Question 5
2 #include <stdio.h>
3 void sort(int n, int* ptr)
4 {
5     int i, j, t;
6     for (i = 0; i < n; i++) {
7         for (j = i + 1; j < n; j++) {
8             if (*(ptr + j) < *(ptr + i)) {
9                 t = *(ptr + i);
10                *(ptr + i) = *(ptr + j);
11                *(ptr + j) = t;
12            }
13        }
14    }
15    printf("Sorted array:\n");
16    for(i=0;i<n;i++)
17    {
18        printf("%d ",*(ptr+i));
19    }
20 }
21 int main()
22 {
23     int n,i;
24     printf("Enter the no. of elements in the array\n");
25     scanf("%d", &n);
26     int arr[n];
27     printf("Enter the elements into the array\n");
28     for(i = 0; i < n; i++){
29         scanf("%d", &arr[i]);
30     }
31     sort(n, arr);
32     return 0;
33 }
```

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Output

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```
/tmp/bnffX2sh9p.o
Enter the no. of elements in the array
6
Enter the elements into the array
4 2 1 3 6 5
Sorted array:
1 2 3 4 5 6
```

main.c

```
1 //Question 6
2 #include <stdio.h>
3 int main()
4 {
5     int n,i;
6     printf("Enter the no. of elements in the array\n");
7     scanf("%d", &n);
8     int arr[n];
9     int *ptr[n];
10    printf("Enter the elements into the array\n");
11    for(i = 0; i < n; i++){
12        scanf("%d", &arr[i]);
13        ptr[i] = &arr[i];
14    }
15    for(i = 0; i < n; i++){
16        printf("Element: %d      Address: %u\n", arr[i], ptr[i]);
17    }
18    return 0;
19 }
```

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```
/tmp/rFimUAHzP.o
Enter the no. of elements in the array
5
Enter the elements into the array
33 66 88 99 44
Element: 33      Address: 3134773040
Element: 66      Address: 3134773044
Element: 88      Address: 3134773048
Element: 99      Address: 3134773052
Element: 44      Address: 3134773056
```



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```
1 // Question 7
2 #include <stdio.h>
3 int isprime(int num)
4 {
5     int i,c=0;
6     for(i=1;i<=num;i++)
7     {
8         if(num%i==0)
9             c++;
10    }
11    return((c==2)?1:0);
12 }
13 int main()
14 {
15     int a,b,i;
16     printf("Enter the start and end of the range\n");
17     scanf("%d %d",&a,&b);
18     for(i=a;i<=b;i++)
19     {
20         if(isprime(i)==1)
21             printf("%d ",i);
22     }
23     return 0;
24 }
```

```
/tmp/dKZJpdApem.o
Enter the start and end of the range
5 20
5 7 11 13 17 19
```





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```
1 //Question 8
2 #include<stdio.h>
3 void printFibonacci(int n){
4     static int n1=0,n2=1,n3;
5     if(n>0){
6         n3 = n1 + n2;
7         n1 = n2;
8         n2 = n3;
9         printf("%d ",n3);
10        printFibonacci(n-1);
11    }
12 }
13 int main(){
14     int n;
15     printf("Enter the number of elements: ");
16     scanf("%d",&n);
17     printf("Fibonacci Series: ");
18     printf("%d %d ",0,1);
19     printFibonacci(n-2);//n-2 because 2 numbers are already printed
20     return 0;
21 }
```

```
/tmp/TV03705xsm.o
Enter the number of elements: 9
Fibonacci Series: 0 1 1 2 3 5 8 13 21
```




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```
1 //Question 10
2 #include <stdio.h>
3 int main()
4 {
5     char str[100];
6     char *p;
7     int vCount=0,cCount=0;
8
9     printf("Enter any string: ");
10    fgets(str, 100, stdin);
11
12    //assign base address of char array to pointer
13    p=str;
14
15    //'\\0' signifies end of the string
16    while(*p!='\\0')
17    {
18        if(*p=='A' || *p=='E' || *p=='I' || *p=='O' || *p=='U' || *p=='a' || *p=='e' || *p=='i' || *p=='o' || *p
19            == 'u')
20            vCount++;
21        else
22            cCount++;
23        //increase the pointer, to point next character
24        p++;
25    }
26    printf("Number of Vowels in String: %d\\n",vCount);
27    printf("Number of Consonants in String: %d",cCount);
28    return 0;
29 }
```

```
/tmp/TV03705xsm.o
Enter any string: Ashutosh Pande
Number of Vowels in String: 5
Number of Consonants in String: 10
```



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```
1 //Question 19
2 #include<stdio.h>
3 void main()
4 {
5     int car=10,bus=20,twowhlr=5,noofhours,fine;
6     char n;
7     printf("Please enter vehicle details c-car, b-bus and t-twowheeler: ");
8     scanf("%c",&n);
9     printf("Please enter no of hours: ");
10    scanf("%d",&noofhours);
11    if(n=='c')
12    {
13        fine=car*noofhours;
14    }
15    else if(n=='b')
16    {
17        fine=bus*noofhours;
18    }
19    else if(n=='t')
20    {
21        fine=twowhlr*noofhours;
22    }
23    printf("%d",fine);
24 }
```

```
/tmp/TV03705xsm.o
Please enter vehicle details c-car, b-bus and t-twowheeler: b
Please enter no of hours: 15
300
```