**Pointer exercise**

Question 1.

(1).S

(2).T

(3).6940

(4).S

(5).9772

Question 2.

D.\*p=75

Question 3.

c is a character element. So only character pointer can point c . Here p is defined as double pointer.

Question 4.

int main(

{

char blocks[3] = {'A','B','C'};

char \*ptr = &blocks[0];

char temp;

temp = blocks[0]; //A

temp = \*(blocks + 2); //C

temp = \*(ptr + 1); //B

temp = \*ptr; //A

ptr = blocks + 1; //4435

temp = \*ptr; //B

temp = \*(ptr + 1); //C

ptr = blocks; //4434

temp = \*++ptr; //C

temp = ++\*ptr; //E

temp = \*ptr++; //

temp = \*ptr; //

return 0;

}

Question 5.

for(int i=4;i>=0;i--){cout<<\*(s+i);}

Question 6.

#include<iostream>

using namespace std;

int countEven(int\*arr){

int n=0;

for (int i = 0; i < k; i++)

if (arr[i] % 2 == 0)

n++;

return n;

}

int main()

{

int arr[]={0,1,2,3,4,5,6,7,8,9},n;

n=countEven(arr);

cout<<"no of even entries is "<<n<<endl;

return 0;

}

Question 7.

#include<iostream>

using namespace std;

//function to find largest

double maximum(double arr[],int n){

int i;

double \*p=arr;

for(int i=0;i<n;i++){

if(arr[0]<arr[i]){

arr[0]=arr[i];

}

}

cout<<"largest element is "<<c<<endl;

return 0;

}

int main()

{

int i,n;

//asking no of elements

cout<<"enter total no of elements";

cin>>n;

double arr[n],c;

//declare array

for(int i=0;i<n;i++){

//to take values of array

cout<<"enter an element:"<<i<<endl;

cin>>arr[i];

}

maximum(arr,n);

return 0;

}

Question 8.

#include <iostream>

using namespace std;

int myStrLen(char str[]){

for(int i=0;i<20;i++){

if(str[i]=='\0'){

return i;

}

}

}

int main(){

char str[20];

cout<<"enter a string\n";

cin>>str;

int n=myStrLen(str);

cout<<"length of the string is "<<n<<endl;

return 0;

}

Question 9.

#include<iostream>

#include<cstring>

using namespace std;

// Returns true if str1[] is a subsequence of str2[]. m is

// length of str1 and n is length of str2

bool isSubSequence(char str1[], char str2[], int m, int n)

{

// Base Cases

if (m == 0) return true;

if (n == 0) return false;

// If last characters of two strings are matching

if (str1[m-1] == str2[n-1])

return isSubSequence(str1, str2, m-1, n-1);

// If last characters are not matching

return isSubSequence(str1, str2, m, n-1);

}

// Driver program to test methods of graph class

int main()

{

char str1[] = "gksrek";

char str2[] = "geeksforgeeks";

int m = strlen(str1);

int n = strlen(str2);

isSubSequence(str1, str2, m, n)? cout << "Yes ":

cout << "No";

return 0;

}

Question 10.

#include<iostream>

using namespace std;

//main function

void revString(char \*s)

{

// WRITE YOUR CODE HERE

for(int i=0;i<=4;i++){cout<<s[4-i];

}

}

int main()

{

char s[10] = "abcde";

revString(s); // call the function

return 0;

}