**WEEK-3 (20 JAN - 25 JAN)**

**[CO 1]**

**Q 1:** Write a program in C using pointers to compute the sum of all elements stored in an array.

**Q 2:** Write a C program with a function using pointers to exchange the values stored in two locations in the memory.

**Hint : void exchange(int\*, Int\*) // user defined**

**Q 3:** Write a program in C using points to determine the length of a character string.

**Q 4:** Write a function using pointer parameter that compares two integer arrays to see whether they are identical. The function returns 1 if they are identical, 0 otherwise.

**Hint: a[3] = (1, 2, 3);**

**b[3] = (2, 3, 1);**

**c[3] = (1, 2, 4);**

**&identical(a, b) returns 1**

**&identical(a, c) returns 0**

**Q5.** What is the output of the following program?

|  |  |
| --- | --- |
| **Program** | **Output Options** |
| #include<stdio.h>  main() {  char \*s = "Hello";  while(\*s!=NULL)  printf("%c", \*s++);  } | A - Hello  B - Helloellolloloo  C - ello  D - Compile error |
| #include<stdio.h>  int main() {  const int \*ptr = &i;  char str[] = "Welcome";  s = str;  while(\*s)  printf("%c", \*s++);  return 0;  } | A - Welcome  B - 0  C - Wel  D - Come |
| #include<stdio.h>  main() {  register int x = 5;  int \*p;  p=&x;  x++;  printf("%d",\*p);  } | A - Compile error  B - 5  C - 6  D - Garbage value |
| #include<stdio.h>  int main() {  const int x = 5;  const int \*ptrx;  ptrx = &x;  \*ptrx = 10;  printf("%d\n", x);  return 0;  } | A - 10  B - 20  C - 0  D - The program will return error |