**Assignment Policy:**

1. Late assignments will NOT be accepted.
2. Student work individually.
3. Cheating is forbidden in this course and will be considered a **-5 mark**
4. All assignments must be keyboarded **(handwritten work will NOT be accepted).**
5. Assignments should be stapled and placed in an unsealed envelope
6. Your submitted work has to be **neat** and **clean**.
7. Please clearly write your **name**, **section number**, and **student number**.
8. You should add the cover page that has your full information to your answers sheet.

Substantial departures from the above guidelines will NOT be graded.

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1. **What is the output of the following C segments:**

Assuming **input =’#’**, **x=5** , **y=8**

|  |  |  |  |
| --- | --- | --- | --- |
| a)  switch(input){  case ‘#’:  printf(“####\n”);  break;  case ‘\*’:  printf(“\*\*\*\*\n”);  break;  default:  printf(“$$$$\n”);} | **Output:** | b)  switch(input){  case ‘#’:  printf(“####\n”);  case ‘\*’:  printf(“\*\*\*\*\n”);  default:  printf(“$$$$\n”);} | **Output:** |
| c)  if(x==5)  { printf(“\*\*”);}  if(y==8)  { printf(“$$”);}  else  { printf(“%%”);} | **Output:** | d)  if(x==5)  {printf(“\*\*”);}  else if(y==8)  {printf(“$$”);}  else  {printf(“%%”);} | **Output:** |
| e)  switch (input)  {  case 1:  case 3:  case 5: printf (“The input %d is odd \n”, input);  break;  case 2:  case 4:  case 6: printf (“The input %d is even \n”, input);  break;  default : printf (“The input %d is zero \n”, input);  break;  } **// input=0** | **Output:** | f)  if (x >= 0)  x = x + 1;  if (x >= 1)  x = x + 2;  printf(“x equals %3d\n”, x);  **// x=0** | **Output:** |

1. **Identify and correct error(s) in each of the following:**

|  |  |
| --- | --- |
| a)  if(x=1);  {printf(“\*\*”);}  else  {printf(“&&”);} |  |
| b)  char faculty[20] = “Nursing”;  switch (faculty)  {  case “Computer”: printf (“+++”);  break;  case “Maths”: printf (“&&&”)  break;  default: printf (“\*\*\*”);  } |  |
| c)  switch(input){  case 1: break;  case x: printf(“\*\*”); break;} |  |

1. **Write C statements to accomplish each of the following tasks:**

**a)** Determine if the string variable char str[20] end with ':' then print message "this is head of list"

**b)** Determine whether **num** is positive or negative, if positive then determine if it is odd or even. And print appropriate message in each different case.

1. **Rewrite the following if statement using conditional operator**

if(x>=y)

max=x;

else

max=y;

int max;

max=((x>=y)? x:y);

printf(“Max= %d\n”,max);

1. **write if statement to check a profit value​, if the profit exceed 3,000 then print (the profit exceed the expectations​) , if the profit less than 3,000 and more than 1,000 then print ( high) , if the profit between 1,000 and 500 then print (expected) , if less than 500 then print (low).**

If (profit>3000)

{

printf(“the profit exceed the expectations”);

}

else

If ((profit<3000) && (profit>1000))

{

printf(“high”);

}

else

If ((profit>=500) && (profit<=1000))

printf(“expected”);

}

else

If (profit<500)

{

printf(“low”);

}