DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
TASK PLAN

Course Code / Course Name: 10211CS306/ COMPETITIVE CODING-1

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Class Slot : L13

Task1: Point out the Syntax and Semantic errors in the code snippet, and debug

1. Point out the Semantic errors in the code snippet

```c
#include <stdio.h>
int main()
{
   a = 10;
printf("The value of a is : %d", a);
return 0;
}
```

2. Point out the Syntax errors in the code snippet:

```c
#include <stdio.h>
int main()
{
int a=2;
if(.)

printf("a is greater than 1");
return 0;
}
```

3. Point out the Syntax errors in the code snippet

```c
#include <stdio.h>
int main()
{
int a=2;
int b=2/0;
printf("The value of b is : %d", b);
return 0;
}
```

4. Find the output of the code

```
int main()
{
int x=1,y=5;
printf("%d",++(x+y));
return 0;
}
```


5. Find the output of the code

```
int main()
{
int a=2,b=3,c=3;
a=b==c;
printf("a=%d",a);
return 0;
}
```

6.Find the output of the code

```
int main()
{
int i=9;
for(i--;i--;i--);
printf("%d",i);
return 0;
}
```
6. Find the output of the code

```
int main()
{
int i;
for(i=5;++i;i-+3)
printf("%d",i);
return 0;
}
```

Task2:Conceptual Questions in Programming

1.   What is the value assigned to the variable X if b is 7.

X = 7 >8 ? b << 3:7 >4 ? 7 >> 1: b;

2.   What will be printed by the code below?

```
int main()
{
printf("Hi Friends"+3);
return 0'
}
```

3.   What will be printed as the result of the operation below?

```
int main()/
{
char a=5,b=9;
printf("%d\n",a&b);
return 0;
}
```

4.   What is the value assigned to the variable z

```
int main(void)
{
int a=0,b=;
if(!a)
{
b =!a;
if(b)
a =!b;
}
printf("%d %d\n",a,b);
return 0;
}
```

5.   What will be printed as the result of the operation below?

```
int main()
{
int x=5,y=-11,a=2,b=8;

int z=x++ - --y * b / a;
printf("%d",z);
return 0;
}
```

6. What will be printed as the result of the operation below?

```
int main()
{
char a=5,b=9;
printf("%d",b>>1;
return 0;
}
```


7. Find the output:

```
#include <stdio.h>
main()
{
int i;
int *pi = &i;
scanf("%d", pi);
printf("%d\n", i+5);
}
```


8.Find the output:

```
double f(double x)
{
if (abs(x*x - 3) < 0.01) return x;
else return f(x/2 + 1.5/x);
}
```


```
9.charinchar = 'A';
switch (inchar)
{
case 'A' :
printf ("choice A \n") ;
case 'B' :
printf ("choice B ") ;
case 'C' :
case 'D' :
case 'E' :
default:
printf ("No Choice") ;
}
```

10.
What output will be generated by the given code d\segment if:
Line 1 is replaced by "auto int a = 1;"
Line 2 is replaced by "register int a = 2;"

```
int a, b, c = 0;
voidprtFun (void);
int main ()
{
static int a = 1; /* line 1 */
prtFun();
   a += 1;
prtFun();
printf ( "\n %d %d " , a, b) ;
}
voidprtFun (void)
{
staticint a = 2; /* line 2 */
int b = 1;
   a += ++b;
      printf (" \n %d %d " , a, b);
}
```