

Week-2

Assignment - 2

Date nano

1) void fun (int x)

{
x = 30;

}

int main()

{
int y = 20;

fun(y);

printf("%d", y);

return 0;

}

O/p:

20

We are using call
by value

Value remain

same y = 20

2) void fun (int *ptr)

{

*ptr = 30;

}

int main()

{

int y = 20;

fun(&y);

printf("%d", y);

return 0;

}

O/p:

30

Call by reference
here we are using

O/p:

```
3) int main()
```

```
{  
    int *ptr;
```

```
    int x;
```

```
    ptr = &x;
```

```
    *ptr = 0;
```

```
    printf("x = %d\n", x);
```

```
    printf(" *ptr = %d\n", *ptr);
```

```
    *ptr += 5;
```

```
    printf("x = %d\n", x);
```

```
    printf(" *ptr = %d\n", *ptr);
```

```
    (*ptr)++;
```

```
    printf("x = %d\n", x);
```

```
    printf(" *ptr = %d\n", *ptr);
```

```
    return 0;
```

```
}
```

x = 0

*ptr = 0

x = 5

*ptr = 5

x = 6

*ptr = 6

```
4) #include <stdio.h>
```

```
int main()
```

```
{
```

```
    char s1[7] = {'1234'};
```

```
    p = s1 + 2;
```

```
    *p = '0';
```

```
    printf("%s", s1);
```

```
}
```

O/p:

1	2	3	4
---	---	---	---

s1 ↑

⊗ → add of 3

p = s1 + 2 = 3

*p → value
at p, i.e. 3

it will change

to '0'.

so

Ans.

1	2	0	4
---	---	---	---

5) void f(int *p, int *q)

0.2

```
{
    p = q;
    *p = 2;
}
```

here we are
using call by
reference.

```
int i = 0, j = 1;
```

```
int main()
```

```
{
    f(&i, &j);
```

```
    printf("%d %d\n", i, j);
```

```
    getch();
```

```
    return 0;
```

```
}
```

6) int f(int *p1, int **pp2)

0/p

```
{
```

```
    int y, z;
```

```
    **pp2 += 1;
```

```
    z = **pp2;
```

```
    *p1 += 2;
```

```
    y = *p1;
```

```
    x += 3;
```

```
    return x + y + z;
```

```
}
```

```
void main()
```

```
{
    int c, *b, **a;
```

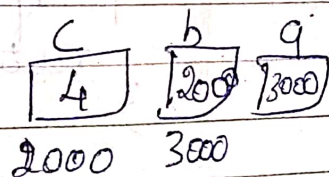
```
    c = 4;
```

```
    b = &c;
```

```
    a = &b;
```

```
    printf("%d", f(c, b, a));
```

```
    return 0;
```



```

7) int main()
{
    int arr[] = {1, 2, 3, 4, 5};
    int *p = arr;
    ++*p;
    p += 2;
    printf("%d", *p);
    return 0;
}

```

O/P:

3

1	2	3	4	5
---	---	---	---	---

here p will
be incremented
2 so
we will print

3

```

8) int main()
{

```

O/P:

2011

```

    char c[] = "GATE2011";

```

```

    char *p = c;

```

```

    printf("%s", p + p[3] - p[1]);
}

```

9) what would put in '?' to print street

```

int main()
{

```

```

    char arr[] = "workstreet";

```

```

    printf("%s", ?);

```

```

    return 0;
}

```

O/P:

w	o	r	k	s	t	r	e	e	t	\0
---	---	---	---	---	---	---	---	---	---	----

it will print from 5 till '\0'

10) int fun(char *str1)

O/p:

10

{
char *str2 = str1;

while (*++str1);

return (str1 - str2);
}

it will print
no. of character
Present in string

int main()

{

char *str = "WorkStreet";

printf("%d", fun(str));

return 0;

}