

Write down the outputs of these programs.

```
#include<iostream>
using namespace std;
main()
{
    int a;
    for(a=15;a>=2;a-=2)
        cout<<a<<endl;
}
```

Output:-

15
13
11
9
7
5
3

```
#include<iostream>
using namespace std;
main()
{
    int a,b;
    for(a=1;a<=5;a++)
        for(b=1;b<=5;b++)
            cout<<a<<"\t"<<b<<endl;
}
```

Output:-

1	1	3	1
1	2	3	2
1	3	3	3
1	4	3	4
1	5	3	5
2	1	4	1
2	2	4	2
2	3	4	3
2	4	4	4
2	5	4	5
3	1	5	1
3	2	5	2
3	3	5	3
3	4	5	4
3	5	5	5
4	1	6	1
4	2	6	2
4	3	6	3
4	4	6	4
4	5	6	5
5	1	7	1
5	2	7	2
5	3	7	3
5	4	7	4
5	5	7	5

```
#include<iostream>
using namespace std;
main()
{
    int b=6;
    for(a=1;a<=12;a++)
        cout<<b<<"x"<<a<< "=" <<a*b<<endl;
}
```

Output:-

$$\begin{array}{l} 6 \times 1 = 6 \\ 6 \times 2 = 12 \\ 6 \times 3 = 18 \\ 6 \times 4 = 24 \\ 6 \times 5 = 30 \\ 6 \times 6 = 36 \\ 6 \times 7 = 42 \\ 6 \times 8 = 48 \\ 6 \times 9 = 54 \\ 6 \times 10 = 60 \\ 6 \times 11 = 66 \\ 6 \times 12 = 72 \end{array}$$

```
#include<iostream>
using namespace std;
main()
{
    int a;
    for(a=66;a<=90;a+=2)
        cout<<char(a)<<endl;
}
```

Output:-

B
D
F
H
J
L
M
O
P
R
S
T
V
W
Y
Z

```
#include<iostream>
using namespace std;
main()
{
    int a=1;
    while(a<=10)
    {
        cout<<"Pakistan"<<endl;
        a++;
    }
}
```

Output:-

Pakistan
Pakistan
Pakistan
Pakistan
Pakistan
Pakistan
Pakistan
Pakistan
Pakistan
Pakistan

Rewrite programs after removing errors.

```
#include<iostream>
using namespace std;
main()
{
    Char a;
    for(a=1;a<=10;a++)
        cout<<a<<endl;
}
```

Output:-

1
2
3
4
5
6
7
8
9
10

```
#include<iostream>
```

```
using namespace std;
main()
{
    int a,b;
    for(a=1;a<=10;a++)
        cout<<a<<endl;
}
```

Output:-

1
2
3
4
5
6
7
8
9
10

Write down programs to obtain following outputs.

- Aa Bb Cc Dd Ee
- 4 9 16 25
- Take input two numbers and print its Addition, subtraction, multiplication, division and remainder.
- Print your name 5 times by using for loop.
- Take two numbers and show the greater number, if numbers are equal show both are equal.

ANSWERS:

a) #include <iostream>
using namespace std;
int main()

```
int a;  
for (a=65;a<=90;a++)  
    cout<<a<<endl;  
    cout<<char(a)<<char(a+32)<<"\n";  
return 0;
```

b) #include <iostream>
using namespace std;
int main()

```
int a;  
for (a=2;a<=5;a++)  
    cout<<a*a<<"\n";  
return 0;
```

c) #include <iostream>
using namespace std;
int main()
{
 int a, b, add, sub, multi, remd;
 float div;
 cout << "Enter first no.....";
 cin >> a;
 cout << "Enter second no.....";
 cin >> b;
 add = a + b;
 cout << "\n The addition of " << a << " and " << b << " is....." << add;
 sub = a - b;
 cout << "\n The subtraction of " << a << " and " << b << " is....." << sub;
 multi = a * b;
 cout << "\n The multiplication of " << a << " and " << b << " is....." << multi;
 div = a / b;
 cout << "\n The division of " << a << " and " << b << " is....." << div;
 remd = a % b;
 cout << "\n The remainder of " << a << " and " << b << " is....." << remd;
 return 0;
}

d) #include <iostream>
using namespace std;
int main()
{
 int a;
 for (a=1; a <= 5; a++)
 cout << "Osman" << endl;
 return 0;
}

e) #include <iostream>
using namespace std;
int main()
{
 int a, b;
 cout << "Enter first no.....";
 cin >> a;
 cout << "\nEnter second no.....";
 cin >> b;
 if (a == b)
 cout << "\n Both numbers are equal";
 else if (a > b)
 cout << "\n First number is greater";
 else
 cout << "\n Second number is greater";
 return 0;
}

C++ Programs

1) int main()

{ int a, b, sum, sub, multi, div, rem;

float div;

cout << "Enter first no.:";

cin >> a;

cout << "Enter second no.:";

cin >> b;

sum = a + b;

cout << "The sum of the numbers is...." <<

sum;

sub = a - b;

cout << "\n The subtraction of two no(s) is..."

sub;

`multi = a * b;`

`cout << "The multiplication of two no(s) is...." << multi;`

`div = a / b;`

~~`cout << "The division of two no(s) is...." << div;`~~

`remd = a % b;`

~~`cout << "In the remainder of a & b is...." << remd;`~~

`return 0;`

2)

`int main()`

{

`int a;`

~~`cout << "Enter your marks/-";`~~

~~`cin >> a;`~~

~~`cout << "You are a ";`~~

~~`if (a >= 60)`~~

~~`cout << " good";`~~

~~`cout << "student of the class";`~~

~~`return 0;`~~

{

3)

`int main()`

{

`int marks, age;`

cout << "Enter your age...";
 cin >> age;

if (age >= 18)

{
 cout << "Enter your marks...";
 cin >> marks;

if (marks >= 60)

cout << "You got the job";

}
 return 0;

4) int main()

{
 int marks;

cout << "Enter your marks...";
 cin >> marks;

if (marks >= 40)

cout << "\n Passed";

else

cout << "\n Failed";

return 0;

}

5) int main()

{

int marks

cout << "Enter your marks";

cin >> marks;

if (marks >= 80)

cout << "Your Grade is A1";

else if (marks >= 60)

cout << "Your Grade is A";

else if (marks >= 50)

cout << "Your Grade is B";

else if (marks >= 40)

cout << "Your Grade is C";

else

cout << "You are Failed";

return 0;

}

6) int main()

{

int day;

cout << "Enter the no. of day";

cin >> day;

switch (day)

{

case 1: cout << "Sunday";
break;

case 2: cout << "Monday";
break;

case 3: cout << "Tuesday";
break;

case 4: cout << "Wednesday";
break;

case 5: cout << "Thursday";
break;

case 6: cout << "Friday";
break;

case 7: cout << "Saturday";
break;

default: cout << "Invalid day no.";
break;

}

return 0;

}

2) int main()

{

int a;

cout << "The even numbers from 1-20 are...";

for (a=2; a <= 20; a+=2)
 cout << "\n" << a;

return 0;
 }

8) int main ()
 {

char a;
 int b=0;

cout << "Type the characters. Press Enter to

a = getch(); / terminate...";

if (a!= '\r')

{

a = getch();

b++;

}

cout << " Your entered characters are... " << b;

return 0;

}

10) int main()

{

int num, a;

for (num = 1; num <= 5; num++)

Date _____

{

cout << "\n";

for (a=1 ; a <= 10 ; a++)

cout << a << " ";

}

return 0;