

# INDIAN SCHOOL AL WADI AL KABIR

<b>Class: VIII</b>	<b>Department : Computer Science</b>	<b>Year :2024-2025</b>
<b>WORKSHEET No:3</b>	<b>Topic: PYTHON CONTROL STRUCTURE- PROGRAMS</b>	

1. # Python Program to Check whether the number is divisible by 5 or not using If-else Statement

```
x = int(input("Enter the number to check"))
if (x % 5 == 0):
    print ("The number is divisible by 5")
else:
    print ("The number is not divisible by 5")
```

2. # Python program to find the factorial of a number provided by the user.

#To take input from the user

```
num = int(input("Enter a number: "))
```

```
factorial = 1
```

# check if the number is negative, positive or zero

```
if num < 0:
```

```
    print("Sorry, factorial does not exist for negative numbers")
```

```
elif num == 0:
```

```
    print("The factorial of 0 is 1")
```

```
else:
```

```
    for i in range(1,num + 1):
```

```
        factorial = factorial*i
```

```
    print("The factorial of",num,"is",factorial)
```

3. Write a program using while loop in python to print the multiplication table of 25

# Multiplication table in Python using while loop

```
num = int(input("Enter the number : "))
```

```
i = 1
```

# using while loop to iterate multiplication 10 times

```
print("Multiplication Table : ")
```

```
while i<=10:
```

```
    num = num * i
```

```
    print(num,'x',i,'=',num*i)
```

```
    i += 1
```

4. #Multiplication table using for loop  
num=int(input("Display multiplication table of?"))  
# Iterate 10 times from i = 1 to 10  
for i in range(1,11):  
print(num, 'x', i, '=', num\*i)
5. #Write a program to enter the age of a person and find out whether he is retired or not.  
age = int(input("Enter you age: "))  
if age >= 60:  
print("You are retired as you are above 60 ")  
else:  
print("You are not retired as you are below 60")
6. #A school has the following rules for the grading system. Write a program to enter the marks and print the corresponding grade in python.  
Below 20-F    20 to 40 -E    40 to 60 -D  
60 to 80- C    80 to 90 -B    Above 90-A  
marks=int(input("enter the marks"))  
if marks<20:  
    print("the grade is: F")  
elif 40>=marks and marks>=20:  
    print("the grade is: E")  
elif 60>=marks and marks>=41:  
    print("the grade is: D")  
elif 80>=marks and marks>=61:  
    print("the grade is: C")  
elif 90>=marks and marks>=81:  
    print("the grade is: B")  
elif 91<=marks:  
    print("the grade is: A")  
else:  
    print("Invalid entry")
7. #Program to print even numbers using while loop  
i = 0  
while i <=20:  
    print(i)  
    i+=2
8. #program to print all the days of the week  
days=("Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday",  
"Sunday")  
For x in days:

```
print(x)
```

9. #Write a program to check the greatest of three numbers

#Take input or three number to compare

```
n1=int(input("Enter the Number1:"))
```

```
n2=int(input("Enter the Number2:"))
```

```
n3=int(input("Enter the Number3:"))
```

```
if n1>n2:
```

```
    if n1>n3:
```

```
        print(n1, " - Number1 is greater")
```

```
    else:
```

```
        print(n3, " - Number3 is greater")
```

```
else:
```

```
    if n2>n3:
```

```
        print(n2, " - Number2 is greater")
```

```
    else:
```

```
        print(n3, " - Number3 is greater")
```

10.#Program to create a pattern using for loop

```
for a in range(1,10):
```

```
    print("*" *a)
```